

**SCREENING SITE INSPECTION**

**FOR**

**PEKIN MUNICIPAL LANDFILL#1**

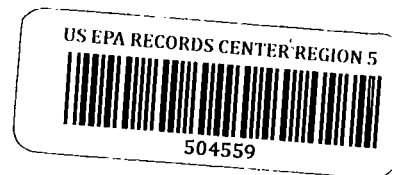
**PEKIN, ILLINOIS**

**U.S. EPA ID: ILD980901615**

**SS ID: NONE**

**TDD: F05-8802-103**

**PAN: FIL0581SA**



**SEPTEMBER 26, 1989**



**ecology and environment, inc.**

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FOR  
SCREENING SITE INSPECTION REPORT  
FOR  
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PEKIN, ILLINOIS  
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## 1. INTRODUCTION

Ecology and Environment, Inc., Field Investigation Team (FIT) was tasked by the United States Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) of the Pekin Municipal Landfill #1 site under contract number 68-01-7347.

The site was initially identified by the Illinois Environmental Protection Agency (IEPA) in the form of a preliminary assessment (PA) submitted to U.S. EPA. The PA was prepared by Kenneth Page of IEPA and is dated March 28, 1985.

FIT prepared an SSI work plan for the Pekin Municipal Landfill #1 site under technical directive document (TDD) F05-8705-101, issued on May 13, 1987. The SSI work plan was approved by U.S. EPA on February 5, 1988. The SSI of the Pekin Municipal Landfill #1 site was conducted on November 15, 1988, under TDD F05-8802-103, issued on March 2, 1988.

The FIT SSI included an interview with site representatives, a reconnaissance inspection of the site, and the collection of five soil samples, one municipal well sample, and one utility well sample.

The purposes of an SSI have been stated by U.S. EPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS [Hazard Ranking System] score, 2) establish priorities among sites most likely to qualify for the NPL [National Priorities List], and 3) identify the most critical data requirements for the listing SI step.

A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP [no further remedial action planned], or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA [Resource Conservation and Recovery Act].... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI. (U.S. EPA 1988)

U.S. EPA Region V has also instructed FIT to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

## 2. SITE BACKGROUND

### 2.1 INTRODUCTION

This section includes information obtained from SSI work plan preparation, the site representative interview, and a reconnaissance inspection of the site.

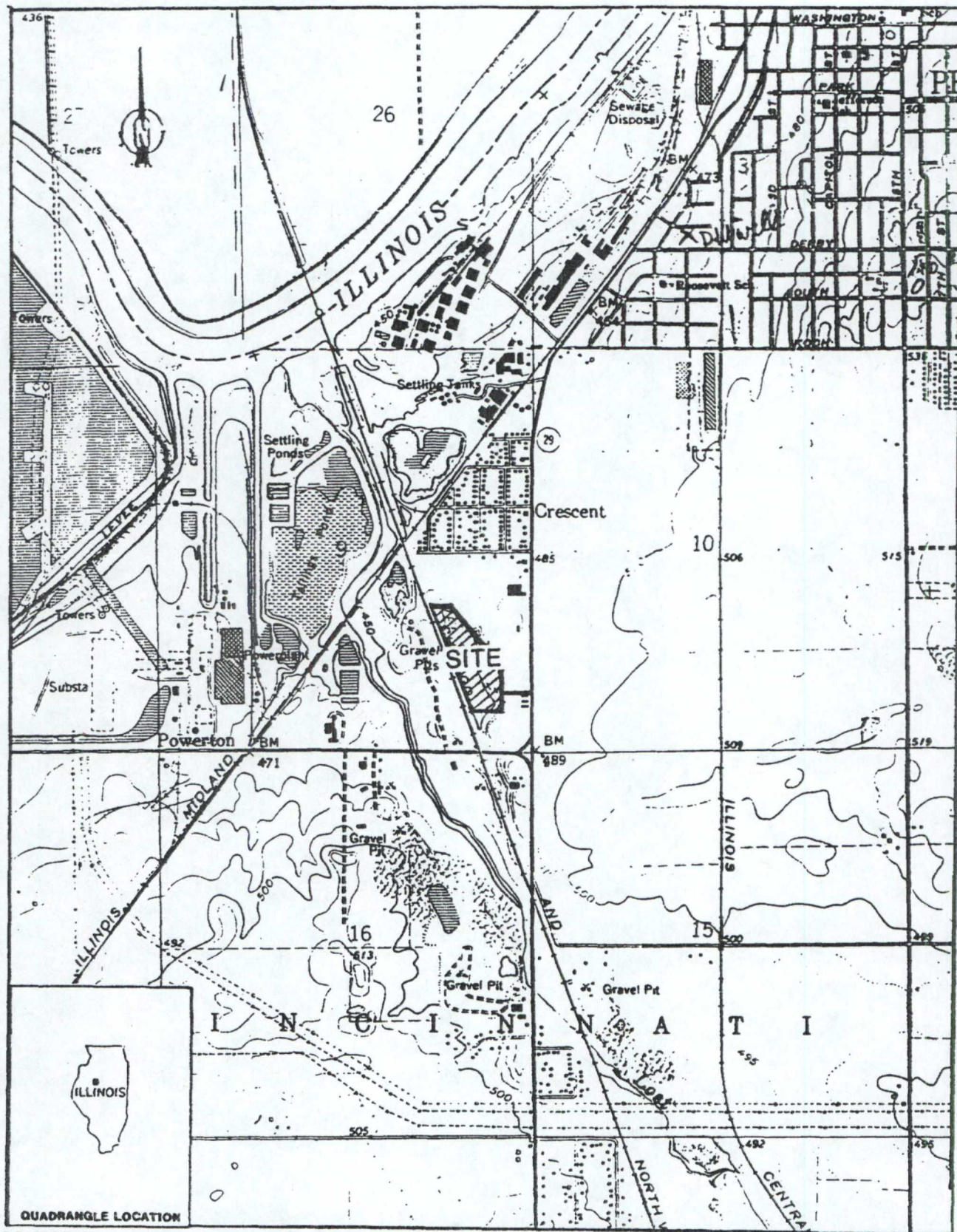
### 2.2 SITE DESCRIPTION

The Pekin Municipal Landfill site is a closed and covered dump where general household refuse was deposited by the City of Pekin between 1965 and 1975 (Austin, Jensen, and Sassman 1988). The site is located on a 25-acre parcel of land approximately 3/4 miles southwest of the city of Pekin, Illinois, in Tazewell County (SE1/4 sec. 9, T.24N., R.5W.), approximately 500 feet northwest of the intersection of Manito Road and Illinois Route 29 (see Figure 2-1). A 4-mile radius map of the site area is provided in Appendix A.

### 2.3 SITE HISTORY

In 1965, the City of Pekin, Illinois, and Frank Rosenberg, Inc., owner of the site property, entered into an agreement to use the land as a municipal landfill.

On May 15, 1974, a preliminary hydrologic evaluation for the area was requested from the Illinois State Water Survey and the Illinois State Geological Survey (Stauffer 1977). The evaluation revealed that the area was an abandoned gravel pit, 40 feet deep, excavated approximately to the water table. The gravel was highly permeable and extended to bedrock, at a depth of 75 feet.



SOURCE: Ecology and Environment, Inc. 1989; BASE MAPS: USGS, Pekin, IL Quadrangle, 7.5 Minute Series, 1970.

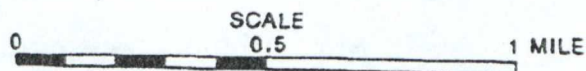


FIGURE 2-1 SITE LOCATION

On both May 9, 1974, and April 2, 1975, the City of Pekin applied for landfill permits with IEPA. Due to the hydrologic unsuitability of the site, both permits were denied (Environmental Protection Agency vs. City of Pekin 1976).

On April 14, 1975, IEPA filed a complaint with the Illinois Pollution Control Board (IPCB) alleging that the City of Pekin had operated a solid waste management site from July 27, 1974, until April 14, 1975, without the required operating permit from the agency (Environmental Protection Agency vs. City of Pekin 1976).

The City of Pekin ceased dumping material at the landfill around November 1975. During the last year of operation, the landfill received approximately 35,065 tons of waste. Approximately 8 to 10 acres of the landfill were filled (Environmental Protection Agency vs. City of Pekin 1976).

On February 11, 1976, IPCB ruled that the City of Pekin had operated a solid waste management site without the required IEPA permits. IPCB ordered the City of Pekin to cease and desist all solid waste disposal activities at the site, to prepare an acceptable plan of closure to be submitted to IEPA within 30 days of the order, to close the site in conformity with the rules and regulations of IPCB, and to provide and maintain leachate monitoring sites (Environmental Protection Agency vs. City of Pekin 1976).

In response to the order, the City of Pekin filed an administrative review action in the Third District Appellate Court of Illinois. On April 6, 1977, the court affirmed all parts of the order except the requirement for submission of a closure plan, which was reversed (City of Pekin vs. Environmental Protection Agency 1977).

A November 9, 1977, inspection revealed that most of the site did not have proper final cover. Leachate was flowing from the face of the fill to the low point of the site, located in the northwest corner near the railroad tracks (Stauffer 1977). The estimated volume of this leachate pond was approximately 11,000 gallons (Stauffer 1977). The leachate pond appeared to be constant in volume, with the leachate flowing into the pond at the same rate it was absorbed into the ground (Stauffer 1977).



On November 9, 1977, approximately 20 barrels were observed by IEPA personnel along the east fence line, south of the on-site road (Stauffer 1977). The barrels were rusted out, and a tar-like substance had leaked out and congealed a few feet downhill.

The State of Illinois filed a complaint in Circuit Court for the Tenth Judicial District, Tazewell County, Illinois, on March 9, 1978, seeking an injunction to force the City of Pekin to properly cover the landfill (State of Illinois vs. City of Pekin 1978). The Circuit Court issued an injunction on November 13, 1979, ordering the City of Pekin to place a final cover of at least 2 feet on the former landfill site by July 31, 1980 (State of Illinois vs. City of Pekin 1979).

The site was inspected by IEPA on July 29, 1980. The inspection disclosed that the facility was satisfactorily closed and covered, but warned that any future problems relating to leachate, surface drainage, erosion, or random dumping must be corrected promptly (Nienkerk 1980).

IEPA inspections of the site in the period between 1981 and 1983 revealed that erosion had cut gullies into the final cover and underlying refuse had been exposed (Nienkerk 1981; Nienkerk 1982; Savage 1983). There had also been some ponding of water on the western edge of the site and unauthorized vehicles had been driven on the final cover. As a result of the inspections, IEPA requested that remedial actions be taken to correct the problems.

On August 5, 1983, the City of Pekin notified IEPA that the repair of erosion, erosion control, and the draining of a low-lying area at Pekin Municipal Landfill #1 was completed by Randolph and Associates, Inc., engineers for the City of Pekin (Keyser 1983).

Since 1983, there have been no regulatory actions taken by IEPA at the Pekin Municipal Landfill #1 site.



### 3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

#### 3.1 INTRODUCTION

This section outlines procedures and observations of the SSI of the Pekin Municipal Landfill #1 site. Individual subsections address the site representative interview, reconnaissance inspection, and sampling procedures. Rationales for specific FIT activities are also provided. The SSI was conducted with minor alterations from the U.S. EPA-approved work plan because adequate residential wells were not available for sampling.

The U.S. EPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Pekin Municipal Landfill #1 site is provided in Appendix B.

#### 3.2 SITE REPRESENTATIVE INTERVIEW

Daniel Sullivan, FIT team leader, conducted an interview with Tom Sassman, Superintendent of Streets and Sanitation for the City of Pekin; Lee S. Austin, Manager of Site Development Engineering, Randolph & Associates, Inc.; and Karen M. Jensen, Senior Environmental Engineer, Randolph & Associates, Inc. The interview was conducted on November 14, 1988, at 2:00 p.m. at the Pekin Streets and Sanitation Building, 132 Court Street. Also present was Kurt Sims of FIT. The interview was conducted to gather information that would aid FIT in conducting SSI activities.

### 3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, FIT conducted a reconnaissance inspection of the Pekin Municipal Landfill #1 site and surrounding area in accordance with Ecology and Environment, Inc. (E & E), health and safety guidelines. The reconnaissance inspection included a walk-through of the site to determine appropriate health and safety requirements for conducting on-site activities and to make observations to aid in characterizing the site. FIT also determined exact sampling locations during the reconnaissance inspection.

FIT team members arrived at the site at 8:50 a.m. on November 15, 1988. Bernard J. Rosenberg, of Frank Rosenberg, Inc., owner of the site, met with the team leader at this time. The reconnaissance inspection commenced at approximately 10:00 a.m. Rosenberg did not accompany FIT members during the reconnaissance. Mark R. Stafford, hydrogeologist, with Randolph & Associates, Inc., accompanied FIT during the reconnaissance.

Reconnaissance Inspection Observations. Pekin Municipal Landfill #1 is located in a gravel pit southwest of Pekin, Illinois (see Figure 3-1 for locations of site features). The site is bordered to the west by Chicago and Northwestern Railroad tracks and to the north by a vacant field. Beyond the railroad tracks to the west, a dirt road runs north to J-B Disposal Service. Directly south of the site border, a portion of vacant field containing exposed debris was observed, indicating that the land south of the site may have been landfilled in the past. Southeast of the site, FIT observed a wooded area. A small parcel of land east of the landfill and south of the access road is used as a storage area for Farmer's Grain Co-op. The remainder of the east side of the site is bordered by an empty field and by another business, United Ready-Mix, to the northeast.

The site is generally lower in elevation than the surrounding land. Land use around the site is primarily agricultural, industrial, and residential. Photographs of the Pekin Municipal Landfill #1 site are provided in Appendix C.

The access road leading into the landfill is blocked by a gate, which was not locked at the time of the SSI. The access road is fenced.



on each side, and a fence separates the landfill from Farmer's Grain property.

The surface of the site was covered with tall, thick grasses and small trees. The trees were thickest in the area north of the access road near the site's eastern border and in the northwest section of the landfill. A small area directly west and slightly north of the access road appeared to have been plowed and was without vegetation. A small ditch (2 to 3 feet wide) appeared in the plowed area and wound toward the north portion of the site. The ditch was dry at the time of the SSI. Approximately 600 feet north of the plowed area, erosion gullies were observed. There was no exposed refuse in the erosion gullies.

The site slopes generally downward toward the north and west. The access road slopes down toward the center of the landfill. Along the eastern site border, a high ridge slopes sharply down and then levels off, with a slight downward slope toward the west. The southern section of the landfill is generally level, until north of the plowed area, when a gentle downward slope toward the north begins. The land rises sharply near the site's western border and the railroad tracks are located well above the landfill. The area where the leachate pond had been was not visible at the time of the SSI. However, the pond was probably located near the trees in the site's northwest corner, which appeared to be the lowest area of the site.

The landfill was only partially fenced and was accessible. Footprints and motorcycle tracks were observed on the western edge of the site. Spent shotgun cartridges were scattered throughout the site area.

A small patch (4 feet by 4 feet) of hardened tar-like material was observed along the east fence line. The ground surrounding the material appeared to be undisturbed.

### 3.4. SAMPLING PROCEDURES

Samples were collected by FIT at locations selected during the reconnaissance inspection to determine whether U.S. EPA Target Compound List (TCL) compounds and U.S. EPA Target Analyte List (TAL) analytes were present at the site. The TCL and TAL, with corresponding quantitation/detection limits, are provided in Appendix D.

On November 15, 1988, FIT collected four surface soil samples and one potential background surface soil sample. One municipal well and one utility well sample were also collected by FIT. A portion of each sample was offered to site representatives, but the offer was declined.

Soil Sampling Procedures. Surface soil sample S1 was collected from a low-lying area near the southwest corner of the landfill (see Figure 3-2 for soil sampling locations). This location was chosen to determine whether leachate residue was present in the area.

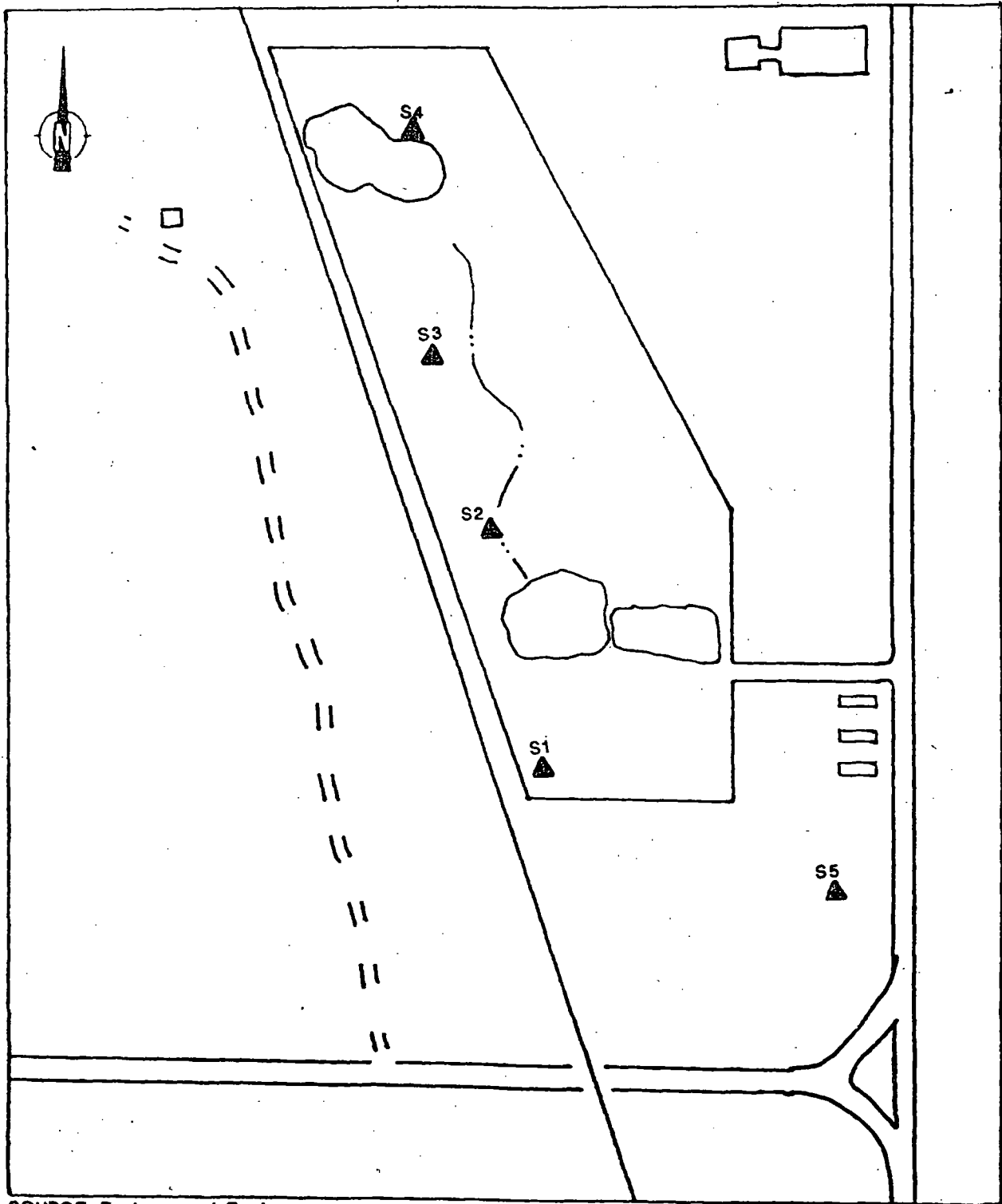
Surface soil sample S2 was collected from the dry ditch, approximately 100 feet north of the plowed area. This location was chosen because it is an area where potential runoff may flow.

Surface soil sample S3 was collected from an area just west of the dry ditch in an erosion gully. The location was chosen because of its proximity to possible leachate flow. Surface soil sample S4 was collected near the trees in the northwest section of the site. This location was chosen because it appeared to be a possible leachate runoff collection area and the surface soil in the area was darker than surrounding soil.

Surface soil sample S5 was collected from a wooded area south of the Farmer's Grain property as a potential background soil sample. The background soil sample was collected to determine the representative chemical content of the soil in the area surrounding the site. The location was chosen because the ground surface appeared to be undisturbed.

Hand trowels were used to collect all soil samples. A hole 4 to 5 inches deep was excavated with the hand trowel. Sample material from the hole was transferred to a stainless steel bowl using the trowel. Samples were mixed in the bowl and then placed in sample bottles using the trowel (E & E 1987).

Standard E & E decontamination procedures were adhered to during the collection of all soil samples. The hand trowels and bowls were scrubbed with a solution of Alconox detergent and distilled water and triple-rinsed with distilled water before the collection of each soil sample (E & E 1987). All soil samples were packaged and shipped in accordance with U.S. EPA-required procedures.



SOURCE: Ecology and Environment, Inc. 1989.

APPROXIMATE SCALE  
0 200 400 600 800 1000 FEET

FIGURE 3-2 SOIL SAMPLING LOCATIONS

As directed by U.S. EPA, soil samples S1, S2, S3, S4, and S5 were analyzed under the U.S. EPA Contract Laboratory Program (CLP) for TCL compounds by ECOVA of Redmond, Washington, and for TAL analytes by York Laboratories of Monroe, Connecticut.

Utility and Municipal Well Sampling Procedures. One municipal well (RW2) and one utility well (RW1) sample were collected to determine local groundwater characteristics.

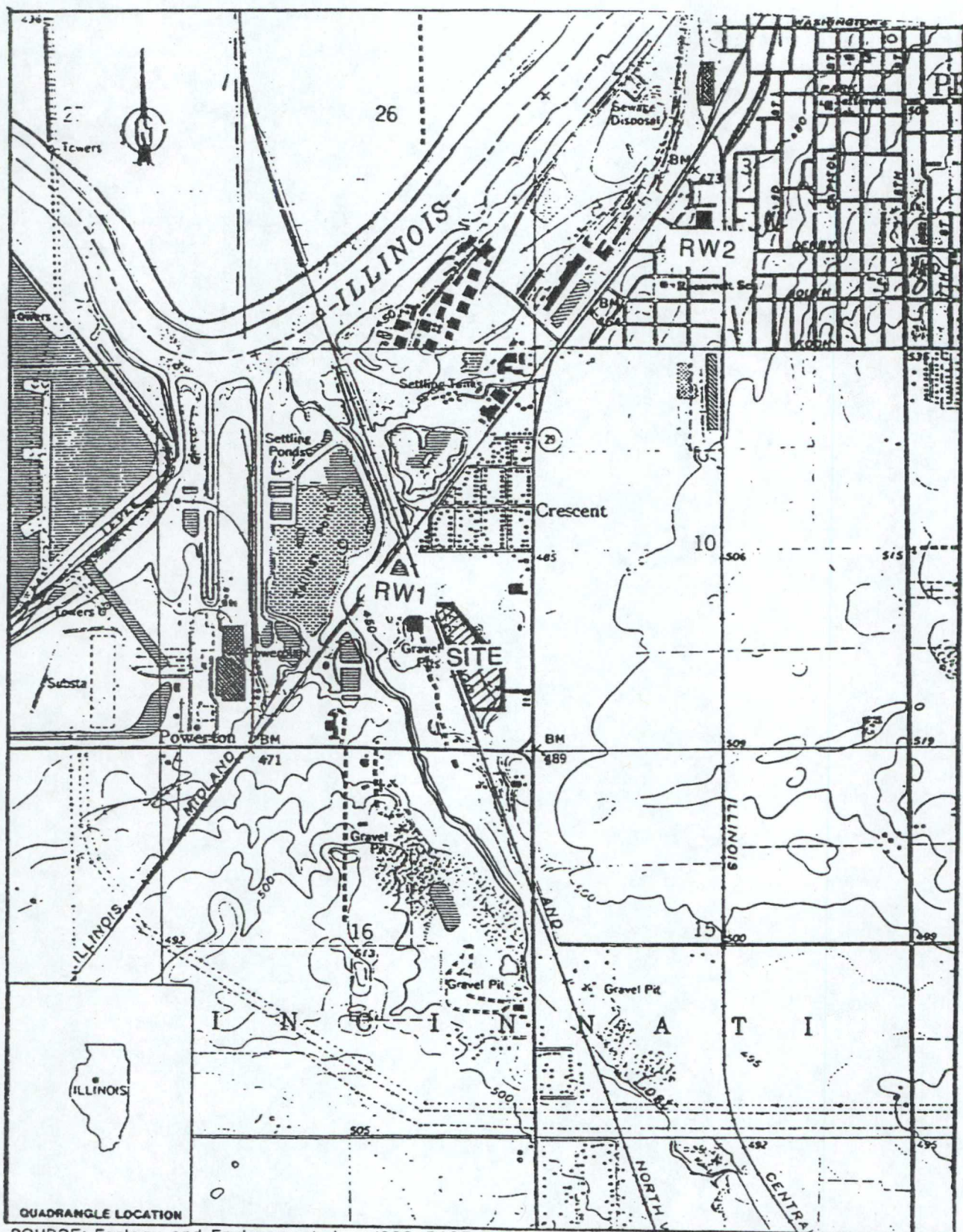
The utility and municipal well sampling locations chosen were the nearest available sampling points to the site. Sample RW1 was collected at a disposal service well located approximately 500 feet west of the site (see Figure 3-3 for utility and municipal water well sampling locations). The well depth was unknown. Sample RW2 was collected from a municipal well (the closest drinking water well to the site) located approximately 1.2 miles northeast of the site.

A distilled water field blank was collected in accordance with U.S. EPA quality assurance/quality control (QA/QC) requirements (see Table 3-1 for addresses of utility and municipal well sampling locations).

Utility and municipal water well samples RW1 and RW2 were collected from outlets that bypassed water treatment systems. For both samples, water was allowed to discharge from the outlet for approximately 10 minutes before samples were collected to ensure that the sample source had been purged of standing water (E & E 1987). Both water well samples were packaged and shipped in accordance with U.S. EPA-required procedures.

As directed by U.S. EPA, both water well samples were analyzed under the U.S. EPA CLP for TCL compounds by Environmental Science and Engineering of Gainesville, Florida, and for TAL analytes by Skinner and Sherman, Inc., of Waltham, Massachusetts.





SOURCE: Ecology and Environment, Inc. 1989; BASE MAPS: USGS, Pekin, IL Quadrangle, 7.5 Minute Series, 1970.

FIGURE 3-3 UTILITY AND MUNICIPAL WELL SAMPLING LOCATIONS



Table 3-1

ADDRESSES OF UTILITY AND MUNICIPAL  
WELL SAMPLING LOCATIONS

Sample	Well Depth (feet)	Address
RW1	Unknown	No address (500 feet west of site)
RW2	124*	125 Edds Avenue Pekin, IL 61554

\* Well depth provided by Dick Tatlock, of the Illinois American Water Company.

Source: Ecology and Environment, Inc. 1989.

## 4. ANALYTICAL RESULTS

### 4.1 INTRODUCTION

This section includes results of chemical analysis of FIT-collected soil samples and utility and municipal well samples for TCL compounds and TAL analytes.

### 4.2 RESULTS OF CHEMICAL ANALYSIS OF FIT-COLLECTED SAMPLES

Soil Sampling Results. Chemical analysis of FIT-collected soil samples revealed the presence of TAL analytes, including heavy metals, metals, common soil constituents, and common laboratory artifacts (see Table 4-1 for complete soil sample chemical analysis results).

Utility and Municipal Well Sampling Results. Chemical analysis of FIT-collected well samples revealed the presence of TAL analytes, including heavy metals and analytes commonly found in area substrate, and the presence of TCL compounds, including halogenated hydrocarbons and common laboratory artifacts (see Table 4-2 for complete utility and municipal well sample chemical analysis results).

U.S. EPA CLP quantitation/detection limits, used in the analysis of FIT-collected soil samples and utility and municipal well samples, are provided in Appendix D.

Table 4-1  
RESULTS OF CHEMICAL ANALYSIS OF  
FIT-COLLECTED SOIL SAMPLES

Sample Collection Information and Parameters	<u>Sample Number</u>				
	S1	S2	S3	S4	S5
Date	11/15/88	11/15/88	11/15/88	11/15/88	11/15/88
Time	1130	1145	1200	1215	1330
CLP Organic Traffic Report Number	ECS34	ECS35	ECS36	ECS37	ECS38
CLP Inorganic Traffic Report Number	MECK42	MECK43	MECK44	MECK45	MECK46
<u>Compound Detected</u>					
(values in $\mu\text{g/kg}$ )					
<u>Volatile Organics</u>					
2-butanone (MEK)	--	--	3J	--	--
toluene	6	7	3J	--	18
<u>Analyte Detected</u>					
(values in $\text{mg/kg}$ )					
aluminum	7,840	8,080	12,700	16,200	9,460
antimony	6.5JNB	12.7JNB	--	7.8JNB	--
arsenic	6.5	6.0	5.2	11.9	5.8
barium	65.2	63.4	92.7	111	123
beryllium	.55B	1.2	1.2B	2.0	1.4
cadmium	--	--	--	--	.92B
calcium	32,100	55,200	3,660	28,00	3,380
chromium	14.1	12.5	19.6	23.8	14.5
cobalt	4.2B	7.2B	9.3B	11.3B	7.0B
copper	50.4JN	17.4JN	14.6JN	28.4JN	16.1JN
iron	16,600	15,800	18,900	29,900	14,600
lead	123J*	8.6J*	10.3J*	16J*	80.9J*
magnesium	16,900	27,600	3,510	17,500	1,700
manganese	388	538	467	708	557
nickel	16	17.9	17.5	27.8	12.8
potassium	974B	871B	1,110B	1,550	991B
selenium	.14JWB	--	.14JWB	.13JWB	.41B

Table 4-1 (Cont.)

Sample Collection Information and Parameters	<u>Sample Number</u>				
	S1	S2	S3	S4	S5
sodium	168B	195B	138B	234B	199B
thallium	.25B	--	--	.26B	.23B
vanadium	19.8	20.1	34.4	36.2	22.9
zinc	103JE	44JE	44.7JE	87.7JE	112JE

-- Not detected.

Table 4-1 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference. See laboratory narrative.	Analyte or element was not detected, or value may be semiquantitative.
N	Spike recoveries outside QC protocols, which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semiquantitative.
*	Duplicate value outside QC protocols which indicates a possible matrix problem.	Value may be quantitative or semiquantitative.
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semiquantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.
W	Post-digestion spike for furnace AA analysis is out of control limits (35-115%), while sample absorbance is <50% of spike absorbance.	Value may be semiquantitative.

Source: Ecology and Environment, Inc. 1989.

Table 4-2  
RESULTS OF CHEMICAL ANALYSIS OF  
FIT-COLLECTED UTILITY AND MUNICIPAL WELL SAMPLES

Sample Collection Information and Parameters	<u>Sample Number</u>		
	RW1	RW2	Blank
Date	11/15/88	11/15/88	11/15/88
Time	1600	1345	1045
CLP Organic Traffic Report Number	ECS39	ECS40	ECS41
CLP Inorganic Traffic Report Number	MECK47	MECK48	MECK49
Temperature (°C)	15	14	18
Specific Conductivity (µmhos/cm)	1800	500	0
pH	15	14	18
<u>Compound Detected</u>			
(values in µg/L)			
<u>Volatile Organics</u>			
methylene chloride	.6J	--	--
acetone	2J	--	--
chloroform	--	.7	.2
bromodichloromethane	--	2	--
dibromochloromethane	--	4	--
bromoform	--	2	--
<u>Analyte Detected</u>			
(values in µg/L)			
aluminum	25.6JB	--	22.4JB
barium	27.4B	44.1B	--
beryllium	4.0BJ	--	--
calcium	240,000J	85,400J	90.5BJ
copper	9.2BJ	7.7BJ	103J
iron	3,850	--	--
magnesium	111,000J	36,800J	--
manganese	672	2.0JB	--
potassium	3,960J	1,230BJ	--
sodium	204,000J	9,460J	786BJ

Table 4-2 (Cont.)

Sample Collection Information and Parameters	<u>Sample Number</u>		
	RW1	RW2	Blank
vanadium	4.9JB	--	--
zinc	548	--	24.9J

-- Not detected.

Table 4-2 (Cont.)

COMPOUND QUALIFIER	DEFINITION	INTERPRETATION
J	Indicates an estimated value.	Compound value may be semiquantitative.

ANALYTE QUALIFIERS	DEFINITION	INTERPRETATION
B	Value is real, but is above instrument DL and below CRDL.	Value may be quantitative or semi-quantitative.
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value may be semiquantitative.

Source: Ecology and Environment, Inc. 1989.



## 5. DISCUSSION OF MIGRATION PATHWAYS

### 5.1 INTRODUCTION

This section contains a discussion of data and information that apply to potential migration pathways and targets of TCL compounds and/or TAL analytes that may be attributable to the Pekin Municipal Landfill #1 site.

The five migration pathways of concern discussed are groundwater, surface water, air, fire and explosion, and direct contact.

### 5.2 GROUNDWATER

TAL analytes were detected in groundwater approximately 500 feet from the site. These analytes cannot be attributed to the Pekin Municipal Landfill #1 site because the analytes detected are commonly found in area substrate and because a limited number of adequate sampling points was available to aid in determining the source of the analytes detected.

A low potential does exist for TAL analytes detected in on-site soils to migrate from the site to groundwater in the vicinity of the site. This potential is based on the following information:

- TAL analytes were detected in on-site surface soil samples;
- The local geology indicates an area of unconsolidated, glacially derived deposits of sand and gravel at the site;

- The site is not lined, and there are no leachate collection systems present (Austin, Jensen, and Sassman 1988); and
- File information indicates a history of leachate and erosion problems at the site.

Geology in the Pekin area consists of Wisconsinan outwash deposits overlain by windblown sand and silt. The outwash consists of sandy gravel with beds of pebbly sand (Walker, Bergstrom, and Walton 1965).

Located beneath the Wisconsinan outwash is the Sankoty Sand Member. The Sankoty Sand ranges from fine to very coarse sand mixed with granule gravel. Beds of medium to coarse sand are most common. The Sankoty Sand and the overlying Wisconsinan outwash constitute the aquifer of concern in the area. The thickness of the Sankoty Sand is approximately 50 to 60 feet in the area of Pekin (Huff 1987). The underlying bedrock, believed to be Pennsylvanian shale, is located at various depths in the Pekin area. The depth to bedrock in the area of the site is believed to be approximately 75 feet (Stauffer 1977; Walker, Bergstrom, and Walton 1965).

Groundwater in the vicinity of the site is believed to flow north, toward the Illinois River (Cartwright 1974). According to Dick Tatlock, of the Illinois American Water Company, seven municipal wells (ranging in depth from 90 to 154 feet and drawing from the Sankoty Sand Member) serve approximately 31,280 persons in the Pekin area. Residences located outside of Pekin municipal boundaries are served by private wells. The well depths in the area range from approximately 62 feet to approximately 148 feet. Well logs representative of the area are provided in Appendix E. The nearest drinking water well to the Pekin Municipal Landfill #1 site is believed to be the municipal well located approximately 1.2 miles northeast of the site (RW2). The depth to groundwater at the site is approximately 40 feet (Stauffer 1977).

Approximately 1,046 persons within a 3-mile radius of the site and on the east side of the Illinois River are served by private wells. This estimate was obtained by counting residences on a United States Geological Survey (USGS) topographic map of the area (USGS 1979), and

multiplying by the 1980 Census average for Tazewell County of 2.82 persons per household (U.S. Bureau of the Census 1982).

The potential target population for groundwater contamination includes approximately 32,326 persons within the 3-mile radius and on the east side of the Illinois River who are served by private and municipal wells finished in the aquifer of concern. Also included are persons outside the 3-mile radius served by municipal wells inside the 3-mile radius.

### 5.3 SURFACE WATER

No surface water samples were collected during the SSI of the Pekin Municipal Landfill #1 site.

The nearest surface water body is Lost Creek, located approximately 875 feet west of the site. Lost Creek flows into the Illinois River. No uses of Lost Creek are known.

No direct overland surface water migration pathways were observed during the SSI, and the site is generally lower in elevation than the surrounding land. On-site drainage pathways appear to be toward the northwest corner. However, the railroad tracks on the western border of the site are well above the surface of the landfill and prevent any surface water runoff from migrating toward Lost Creek. No storm drains or sewers are present on-site (Austin, Jensen, and Sassman 1988).

### 5.4 AIR

A release of TCL compounds and/or TAL analytes to the air was not documented during the reconnaissance inspection of the Pekin Municipal Landfill #1 site. During the SSI, the OVA 128 flame ionization detector used by FIT did not detect concentrations above background levels on-site. The explosimeter used by FIT malfunctioned at the end of the walk-through of the site. In accordance with the U.S. EPA-approved work plan, further air monitoring was not conducted by FIT.

There is little potential for windblown particulates to carry TAL analytes from the site.

## 5.5 FIRE AND EXPLOSION

During the FIT reconnaissance inspection, no evidence of fire or explosive conditions was observed. According to John Hamann of the Pekin Fire Department, there have been no fires requiring a response by his department at the Pekin Municipal Landfill #1 site in the last 20 years.

## 5.6 DIRECT CONTACT

According to federal, state, and local file information reviewed by FIT, and an interview with Pekin Municipal Landfill #1 representatives, no documentation exists of an incident of direct contact with TCL compounds or TAL analytes at this site.

There is a potential for the public to come into direct contact with TAL analytes detected at the site. The potential for direct contact is based on the following information:

- The site is not completely fenced; and
- During the SSI, motorcycle tracks and spent shotgun cartridges were observed on-site, indicating casual site use.

The population within a 1-mile radius of the site is approximately 1,427 persons. This estimate was obtained using the USGS topographic map of the area (USGS 1979). Planimeter readings were used to calculate the portion of the population of Pekin within the 1-mile radius. Outside the Pekin municipal limits, house counts were multiplied by the Tazewell County 1980 Census average of 2.82 persons per household (U.S. Bureau of the Census 1982).

## 6. BIBLIOGRAPHY

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Walker, Bergstrom, and Walton, 1965, Report on the Ground Water Resources of the Havana Region in West-Central Illinois, Illinois State Water Survey and Illinois State Geological Survey.

U.S. Bureau of the Census 1982, 1980 Census of Population, General Population Characteristics--Illinois.

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3194:1

**APPENDIX A**

**SITE 4-MILE RADIUS MAP**



ecology and environment, inc.

U.S. TOPOGRAPHIC MAPS:

NAME	PEKIN	NAME	MARQUETTE HEIGHTS
DATE	1960	DATE	1960
REVISED	1979	REVISED	1979
NAME	SOUTH PEKIN	NAME	
DATE	1971	DATE	
REVISED	1979	REVISED	

SCALE

0 1/2 1 MILE

SITE NAME

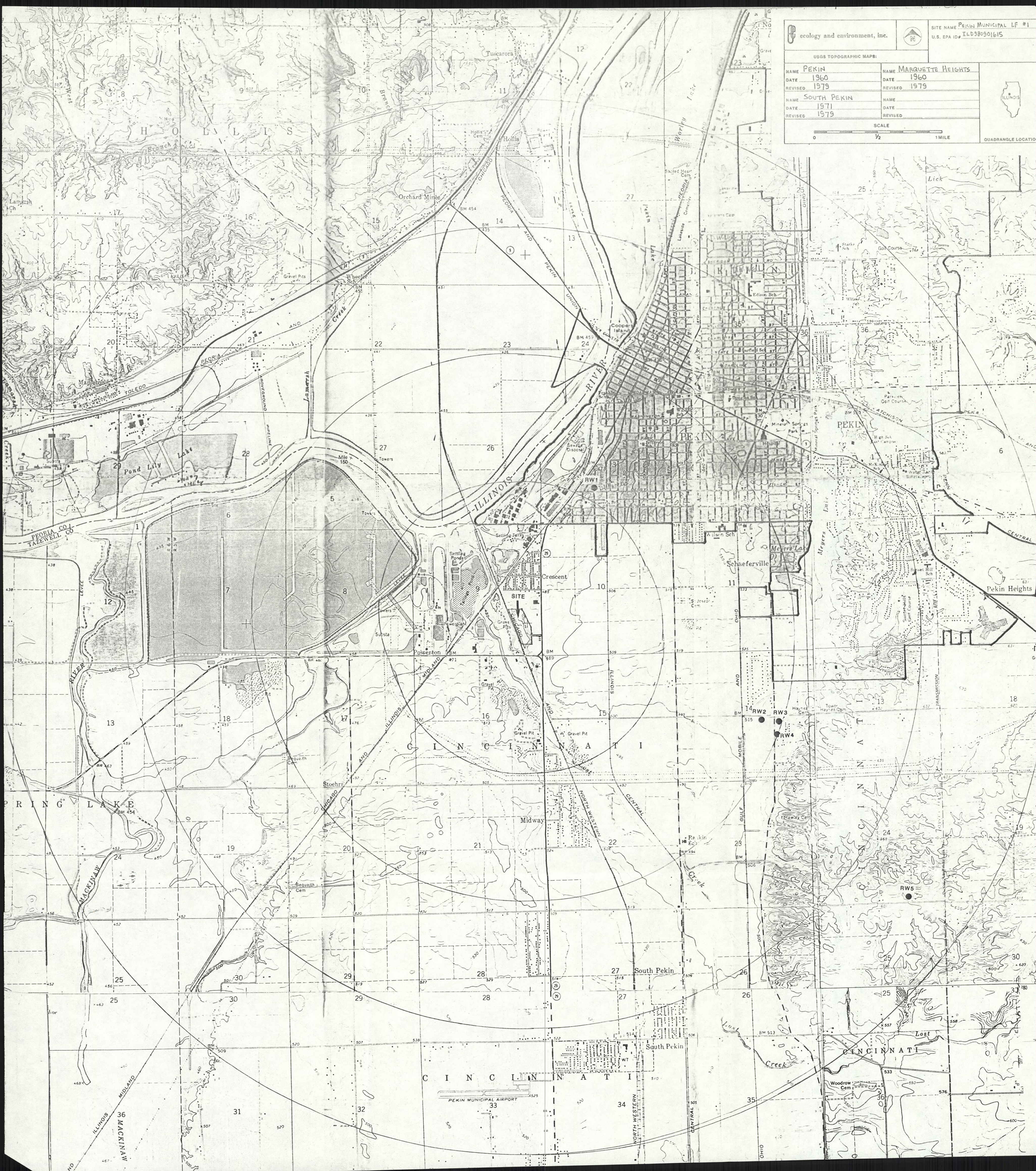
PEKIN MUNICIPAL LF #1

U.S. EPA ID#

ILD980901615

QUADRANGLE LOCATION

ILLINOIS





**APPENDIX B**

**U.S. EPA FORM 2070-13**



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION  
01 STATE IL 02 SITE NUMBER D980901615

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) PEKIN MUNICIPAL LANDFILL #1	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER MANITO RD. AND ROUTE 29
03 CITY PEKIN	04 STATE IL 05 ZIP CODE 61554 06 COUNTY TAZEWELL 07 COUNTY CODE 179 08 CONG DIST 18
09 COORDINATES LATITUDE 40 32 30.0 LONGITUDE 089 40 00.0	10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 11, 15, 88 MONTH DAY YEAR	02 SITE STATUS <input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE	03 YEARS OF OPERATION ~ 1965 ~ 1976 BEGINNING YEAR ENDING YEAR
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR ECOLOGY + ENVIRONMENT INC. <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER		

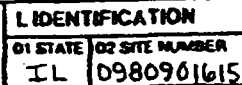
05 CHIEF INSPECTOR DANIEL SULLIVAN	06 TITLE CHEMICAL ENGINEER	07 ORGANIZATION E + E	08 TELEPHONE NO. (312) 663-9415
09 OTHER INSPECTORS KURT SIMS	10 TITLE EARTH SCIENTIST	11 ORGANIZATION E + E	12 TELEPHONE NO. (312) 663-9415
PHIL SMITH	GEOLOGIST	E + E	(312) 663-9415
RONNIE GALMORE	TECHNICIAN	E + E	(312) 663-9415
STAN SENDER	WATER RESOURCE MANAGER	E + E	(312) 663-9415
			( )

13 SITE REPRESENTATIVES INTERVIEWED KAREN M. JENSEN	14 TITLE SENIOR ENVIRONMENTAL ENGINEER	15 ADDRESS RANDOLPH + ASSOCIATES, INC. 8901 NORTH INDUSTRIAL ROAD PEORIA, IL 61615-1509	16 TELEPHONE NO. (309) 692-4422
LEE S. AUSTIN	MANAGER OF SITE DEVELOPMENT ENGINEERING	RANDOLPH + ASSOCIATES, INC. 8901 NORTH INDUSTRIAL ROAD PEORIA, IL 61615-	(309) 692-4160
TOM SASSMAN	SUPT. STREETS + SANITATION	CITY OF PEKIN 132 COURT ST. PEKIN, IL 61554	(309) 477-2325
BERNARD J. ROSENBERG	OWNER	FRANK ROSENBERG, INC. 302 S. 4TH PEKIN, IL	(309) 346-3168
			( )
			( )

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 0900	19 WEATHER CONDITIONS AM - CLOUDY, ~55°, RAIN (SOMETIMES HEAVY) WINDS FROM SSW 10-20 MPH PM - CLOUDY, ~62°, RAIN (OFF + ON) WINDS FROM SSW 10-20 MPH
--	-------------------------------	--

IV. INFORMATION AVAILABLE FROM

01 CONTACT TOM CRAUSE	02 OF (Agency/Organization) ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	03 TELEPHONE NO. (217) 782-9848		
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM DANIEL SULLIVAN	05 AGENCY US EPA	06 ORGANIZATION E + E INC.	07 TELEPHONE NO. 312-663-9415	08 DATE 4, 20, 89 MONTH DAY YEAR





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D980901615

B. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 32326

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

SEE SECTION 5.2

01 ☒ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 0

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

LOST CREEK IS THE NEAREST SURFACE WATER BODY, LOCATED APPROXIMATELY 875 FEET TO THE WEST OF THE SITE. NO USES OF LOST CREEK ARE KNOWN. NO OVERLAND PATHWAYS WERE OBSERVED DURING THE SSI.

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

NONE WAS OBSERVED OR REPORTED.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: 0

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

NO POTENTIAL WAS OBSERVED DURING THE SSI.

01 ☒ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: 1258

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

FENCES DO NOT COMPLETELY SURROUND THE SITE. ACCESS TO THE SITE IS NOT COMPLETELY BLOCKED. WASTE IS COVERED.

01 ☒ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: ~ 25

02 ☒ OBSERVED (DATE: 11-15-88)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

SOIL SAMPLES COLLECTED 11-15-88 SHOW CONTAMINATION WITH TAL ANALYTES.

01 ☐ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 32326

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

MUNICIPAL SUPPLY WELLS ARE UPSTREAM, AND THEREFORE ARE PROBABLY UPGRADIENT OF THE LANDFILL. SEE SECTION 5.2

01 ☒ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: UNKNOWN

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

INDUSTRIAL WASTES MAY HAVE BEEN DEPOSITED ON-SITE WHILE THE LANDFILL WAS IN OPERATION.

01 ☒ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: 1258

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

FENCES DO NOT COMPLETELY SURROUND THE SITE. EVIDENCE OF HUNTING AND RECREATION WERE OBSERVED DURING THE SSI.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I IDENTIFICATION  
01 STATE 02 SITE NUMBER  
IL D980901615

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

NONE WAS OBSERVED

01 ☐ K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (include number(s) of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

NONE WAS OBSERVED

01 ☐ L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

NONE WAS OBSERVED

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Leaking drums, leaking tanks, etc.)

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 1258

04 NARRATIVE DESCRIPTION

LANDFILL IS COVERED ACCORDING TO IEPA SPECIFICATIONS, BUT NO LINER WAS EVER INSTALLED.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

SITE IS BORDERED BY RAILROAD TRACKS, HIGHWAY, AND PRIVATE PROPERTY.  
NO DAMAGE WAS REPORTED OR OBSERVED.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

NONE OBSERVED IN AREA.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL

☐ ALLEGED

NONE OBSERVED OR REPORTED ALTHOUGH ACCESS WAS NOT COMPLETELY RESTRICTED.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

NONE WAS NOTED

06 TOTAL POPULATION POTENTIALLY AFFECTED: 32 326

IV. COMMENTS

MUNICIPAL WELLS ARE PROBABLY UPGRADIENT.

V. SOURCES OF INFORMATION (Can source references, e.g., State files, sample analysis, reports)

STATE EPA (IEPA) FILES.  
ECOLOGY AND ENVIRONMENT FILES, REGION IX.  
SITE INSPECTION CONDUCTED 11-15-88.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION  
01 STATE IL 02 SITE NUMBER D580901615

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPOC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	NONE
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	06 AREA OF SITE
<input checked="" type="checkbox"/> F. LANDFILL	UNKNOWN		<input type="checkbox"/> F. SOLVENT RECOVERY	~ 25 (Acres)
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

THE PEKIN MUNICIPAL LANDFILL SITE IS NOW A CLOSED AND COVERED DUMP WHERE GENERAL HOUSEHOLD REFUSE WAS DEPOSITED BY THE CITY OF PEKIN BETWEEN 1965 AND 1975. THE LANDFILL HAS NO LINER, AND IS LOCATED IN AN ABANDONED GRAVEL PIT. SEE SECTION 2.3

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)  
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, Diking, LINERS, BARRIERS, ETC.

NO EVIDENCE OF LINERS.  
LANDFILL WAS COVERED ACCORDING TO IEPA SPECIFICATIONS.  
EROSION GULLYS WERE OBSERVED

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

SITE WAS NOT FULLY FENCED. LANDFILL IS ADEQUATELY COVERED AND NO LEACHATE WAS OBSERVED.  
EVIDENCE OF HUNTING ON SITE  
MOTOR BIKE TRACKS ON SITE.

VI. SOURCES OF INFORMATION (Check specific references, e.g., state files, sample analysis, reports)

SSI CONDUCTED 11-15-88.  
STATE AND E+E FILE INFORMATION, REGION V



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D980901615

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY  
(Check as applicable)

SURFACE WELL  
COMMUNITY A. ☐ B. ☒  
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED MONITORED  
A. ☐ B. ☐ C. ☒  
D. ☐ E. ☐ F. ☐

03 DISTANCE TO SITE

A. 1.233 (mi)  
B. 0.662 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING  
(Other sources available)  
COMMERCIAL, INDUSTRIAL, IRRIGATION  
(No other water sources available)  
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION  
(Other sources available)  
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 32326

03 DISTANCE TO NEAREST DRINKING WATER WELL 1.233 (mi)

04 DEPTH TO GROUNDWATER

~ 40 (ft)

05 DIRECTION OF GROUNDWATER FLOW

NORTH

06 DEPTH TO AQUIFER  
OF CONCERN

0-5 (ft)

07 POTENTIAL YIELD  
OF AQUIFER

UNKNOWN (gpd)

08 SOLE SOURCE AQUIFER

☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

EVERYONE WITHIN A THREE MILE RADIUS OF THE SITE IS ON GROUNDWATER. PEKIN HAS SEVEN MUNICIPAL WELLS WHICH SERVE THE ENTIRE POPULATION. THE POPULATION OUTSIDE OF THE PEKIN AREA IS SERVED BY PRIVATE WELLS.

10 RECHARGE AREA

☒ YES  
☐ NO

COMMENTS PRECIPITATION  
INFILTRATION

11 DISCHARGE AREA

☐ YES  
☐ NO

COMMENTS POSSIBLE DISCHARGE TO  
ILLINOIS RIVER

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION  
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY  
IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME

AFFECTED

DISTANCE TO SITE

LOST CREEK

☐

~ 0.166 (mi)

ILLINOIS RIVER

☐

~ 0.932 (mi)

☐

(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE

A. 1258  
NO. OF PERSONS

TWO (2) MILES OF SITE

B. 6368  
NO. OF PERSONS

THREE (3) MILES OF SITE

C. 17034  
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

0.135 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

~ 2258

04 DISTANCE TO NEAREST OFF-SITE BUILDING

0.060 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population with vicinity of site, e.g., rural, village, densely populated urban area)

RESIDENTIAL AREAS TO THE NORTH AND NORTHWEST.

INDUSTRIAL AREAS TO THE WEST, NORTH, SOUTH, AND NORTHWEST.

AGRICULTURAL AREAS TO THE EAST AND SOUTH.





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D980901615

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A.  $10^{-6}$  -  $10^{-8}$  cm/sec ☐ B.  $10^{-4}$  -  $10^{-6}$  cm/sec ☐ C.  $10^{-2}$  -  $10^{-3}$  cm/sec ☒ D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☒ A. IMPERMEABLE (Less than  $10^{-6}$  cm/sec) ☐ B. RELATIVELY IMPERMEABLE ( $10^{-4}$  -  $10^{-6}$  cm/sec) ☐ C. RELATIVELY PERMEABLE ( $10^{-2}$  -  $10^{-4}$  cm/sec) ☐ D. VERY PERMEABLE (Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

~ 75 (m)

04 DEPTH OF CONTAMINATED SOIL ZONE

UNKNOWN (m)

05 SOIL pH

UNKNOWN

06 NET PRECIPITATION

35.77-33.2 2.77 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.7 (in)

08 SLOPE

SITE SLOPE

~ 3 %

DIRECTION OF SITE SLOPE

NORTH AND WEST

TERRAIN AVERAGE SLOPE

~ 3 %

09 FLOOD POTENTIAL

SITE IS IN N/A YEAR FLOODPLAIN

10

N/A

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

A. N/A (mi)

OTHER

B. N/A (mi)

12 DISTANCE TO CRITICAL HABITAT (per endangered species)

N/A (mi)

ENDANGERED SPECIES: NONE

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

A. 0.105 (mi)

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

B. 0.135 (mi)

AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

C. (mi) D. 0.090 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

SEE APPENDIX A.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ECOLOGY AND ENVIRONMENT FILES, REGION V.

USGS TOPOGRAPHIC MAP: PEKIN QUADRANGLE.

WELL LOGS: ILLINOIS DEPARTMENT OF PUBLIC HEALTH AND LAYNE WESTERN COMPANY.

ILLINOIS STATE GEOLOGICAL SURVEY



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D980901615

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	5	TCL ECOVA REDMOND, WA TAL YORK LABORATORIES MONROE, CT	
VEGETATION			
OTHER	1 MUNICIPAL WELL 1 UTILITY WELL	TCL ENVIRONMENTAL SCIENCE AND ENGINEERING GAINESVILLE, FL TAL SKINNER AND SHERMAN WALTHAM, MA	

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
OVA 128	NO READINGS ABOVE BACKGROUND
RADIATION MINI ALERT	NO READINGS ABOVE BACKGROUND
MONITOX	NO READINGS ABOVE BACKGROUND
O2/EXPLOSIMETER	MALFUNCTIONED NEAR THE END OF SITE WALK-THROUGH.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>ECOLOGY AND ENVIRONMENT, CHICAGO</u> <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS <u>ECOLOGY AND ENVIRONMENT, CHICAGO</u>

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

NONE

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

STATE FILE INFORMATION.  
SSI CONDUCTED 11-15-88.  
ECOLOGY AND ENVIRONMENT FILES, REGION II.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D980901615

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME BERNARD J. ROSENBERG FRANK ROSENBERG, INC.		02 D+B NUMBER		08 NAME N/A		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 302 SOUTH 4TH		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY PEKIN		06 STATE IL	07 ZIP CODE 61554	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (Last most recent first)				IV. REALTY OWNER(S) (if applicable; last most recent first)			
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI CONDUCTED 11-15-88



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL D986901615

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (if applicable)

01 NAME N/A		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER					

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)

01 NAME CITY OF PEKIN		02 D+B NUMBER		10 NAME N/A		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 132 COURT ST.		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY PEKIN		06 STATE 07 ZIP CODE IL 61554		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE 07 ZIP CODE		14 CITY		15 STATE 16 ZIP CODE	
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI CONDUCTED 11-15-88.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 9 - GENERATOR/TRANSPORTER INFORMATION

L IDENTIFICATION  
01 STATE 02 SITE NUMBER  
IL D980901615

II. ON-SITE GENERATOR

01 NAME N/A	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

SSI CONDUCTED 11-15-88.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I IDENTIFICATION

01 STATE 02 SITE NUMBER  
21 D980901615

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O. EMERGENCY Diking/SURFACE WATER DIVERSION 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
IL D980901615

II. PAST RESPONSE ACTIVITIES (continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ S. CAPPING/COVERING

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ T. BULK TANKAGE REPAIRED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ V. BOTTOM SEALED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ W. GAS CONTROL

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ X. FIRE CONTROL

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ Y. LEACHATE TREATMENT

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ Z. AREA EVACUATED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ 1. ACCESS TO SITE RESTRICTED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ 2. POPULATION RELOCATED

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

N/A

01 ☐ 3. OTHER REMEDIAL ACTIVITIES

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

04 DESCRIPTION

NONE

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ECOLOGY AND ENVIRONMENT FILES, REGION V.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

I IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980901615

II ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

SEE SECTION 2.3 OF NARRATIVE

III SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

ECOLOGY AND ENVIRONMENT FILES, REGION V.  
SITE INSPECTION CONDUCTED 11-15-88.



APPENDIX C  
FIT SITE PHOTOGRAPHS

## FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 1 OF 11

U.S. EPA ID: ILD980901615

TDD: F05-8802-103

PAN: FILO581SA

DATE: &gt; 11-15-88

TIME: &gt; 1615

DIRECTION OF  
PHOTOGRAPH:

&gt; NNW

WEATHER  
CONDITIONS:

&gt; CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:

&gt; K. SIMS

SAMPLE ID  
(if applicable):

&gt;



DESCRIPTION: &gt; PERSPECTIVE OF LANDFILL FACING THE NORTHWEST

&gt; CORNER.

DATE: &gt; 11-15-88

TIME: &gt; 1615

DIRECTION OF  
PHOTOGRAPH:

&gt; S

WEATHER  
CONDITIONS:

&gt; CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:

&gt; K. SIMS

SAMPLE ID  
(if applicable):

&gt;



DESCRIPTION: &gt; PERSPECTIVE OF LANDFILL SHOWING THE SOUTHERN

&gt; SECTION.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 2 OF 11

U.S. EPA ID: ILD980901615

TDD: F05-8802-103

PAN: FIL0581SA

DATE: > 11-15-88

TIME: > 1620

DIRECTION OF  
PHOTOGRAPH:

> ESE

WEATHER  
CONDITIONS:

> CLOUDY

> ~ 60°F

PHOTOGRAPHED BY:

> K. SIMS

SAMPLE ID  
(if applicable):

>



DESCRIPTION: > PERSPECTIVE OF EASTERN EDGE OF LANDFILL. ACCESS

> ROAD IS SHOWN ON LEFT SIDE OF PHOTO. HUTS OWNED BY FARMER'S GRAIN.

DATE: > 11-15-88

TIME: > 1620

DIRECTION OF  
PHOTOGRAPH:

> NE

WEATHER  
CONDITIONS:

> CLOUDY

> ~ 60°F

PHOTOGRAPHED BY:

> K. SIMS

SAMPLE ID  
(if applicable):

>



DESCRIPTION: > PERSPECTIVE OF EASTERN EDGE OF LANDFILL.

> UNITED READY-MIX FACILITY IS SHOWN IN BACKGROUND.



SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 3 OF 11

U.S. EPA ID: ILD980901615

TDD: FO5-8802-103

PAN: FIL0581SA

DATE: &gt; 11-15-88

TIME: &gt; 1625

DIRECTION OF  
PHOTOGRAPH:

&gt; W

WEATHER  
CONDITIONS:  
> CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:  
> K. SIMSSAMPLE ID  
(if applicable):  
>DESCRIPTION: > PERSPECTIVE OF LANDFILL LOOKING WEST FROM EASTERN  
> EDGE. COMMONWEALTH EDISON POWERPLANT SHOWN IN BACKGROUND.

DATE: &gt; 11-15-88

TIME: &gt; 1625

DIRECTION OF  
PHOTOGRAPH:

&gt; W

WEATHER  
CONDITIONS:  
> CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:  
> K. SIMSSAMPLE ID  
(if applicable):  
>DESCRIPTION: > PERSPECTIVE OF ACCESS ROAD TO LANDFILL.  
> COMMONWEALTH EDISON POWERPLANT SHOWN IN BACKGROUND.



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 4 OF 11

U.S. EPA ID: ILD980901615

TDD: FOS-8802-103

PAN: FIL05815A

DATE: > 11-15-88

TIME: > 1625

DIRECTION OF  
PHOTOGRAPH:

> SW

WEATHER  
CONDITIONS:

> CLOUDY

> ~60°F

PHOTOGRAPHED BY:

> K. SIMS

SAMPLE ID  
(if applicable):

>



DESCRIPTION: > PERSPECTIVE OF SOUTHEAST CORNER OF LANDFILL.

> PHOTO TAKEN FROM ACCESS ROAD.

DATE: >

TIME: >

DIRECTION OF  
PHOTOGRAPH:

>

WEATHER  
CONDITIONS:

>

>

PHOTOGRAPHED BY:

>

SAMPLE ID  
(if applicable):

>

DESCRIPTION: >

>



SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 5 OF 11

U.S. EPA ID: ILD980901615

TDD: F05-8802-103

PAN: FILO581SA

DATE: &gt; 11-15-88

TIME: &gt; 1130

DIRECTION OF  
PHOTOGRAPH:

&gt; W

WEATHER  
CONDITIONS:

&gt; CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:

&gt; K. SIMS

SAMPLE ID  
(if applicable):

&gt; S1



DESCRIPTION: &gt; CLOSE-UP OF SOIL SAMPLE S1.

&gt;

DATE: &gt; 11-15-88

TIME: &gt; 1130

DIRECTION OF  
PHOTOGRAPH:

&gt; W

WEATHER  
CONDITIONS:

&gt; CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:

&gt; K. SIMS

SAMPLE ID  
(if applicable):

&gt; S1



DESCRIPTION: &gt; PERSPECTIVE OF SOIL SAMPLE S1.

&gt;



SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 6 OF 11

U.S. EPA ID: ILD980901615 TDD: F05-8802-103

PAN: FIL0581SA

DATE: &gt; 11-15-88

TIME: &gt; 1145

DIRECTION OF  
PHOTOGRAPH:

&gt; N

WEATHER  
CONDITIONS:  
> CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:  
> K. SIMSSAMPLE ID  
(if applicable):  
> S2

DESCRIPTION: &gt; CLOSE-UP OF SOIL SAMPLE S2.

&gt;

DATE: &gt; 11-15-88

TIME: &gt; 1145

DIRECTION OF  
PHOTOGRAPH:

&gt; N

WEATHER  
CONDITIONS:  
> CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:  
> K. SIMSSAMPLE ID  
(if applicable):  
> S2

DESCRIPTION: &gt; PERSPECTIVE OF SOIL SAMPLE S2.

&gt;



SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 7 OF 11

U.S. EPA ID: ILD980901615 TDD: F05-8802-103

PAN: FILO581SA

DATE: &gt; 11-15-88

TIME: &gt; 1200

DIRECTION OF  
PHOTOGRAPH:

&gt; SE

WEATHER

CONDITIONS:

&gt; CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:

&gt; K. SIMS

SAMPLE ID

(if applicable):

&gt; S3



DESCRIPTION: &gt; CLOSE-UP OF SOIL SAMPLE S3.

&gt;

DATE: &gt; 11-15-88

TIME: &gt; 1200

DIRECTION OF  
PHOTOGRAPH:

&gt; SE

WEATHER

CONDITIONS:

&gt; CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:

&gt; K. SIMS

SAMPLE ID

(if applicable):

&gt; S3



DESCRIPTION: &gt; PERSPECTIVE OF SOIL SAMPLE S3.

&gt;



SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 8 OF 11

U.S. EPA ID: ILD980901615 TDD: F05-8802-103

PAN: FILO5815A

DATE: &gt; 11-15-88

TIME: &gt; 1215

DIRECTION OF  
PHOTOGRAPH:

&gt; NW

WEATHER

CONDITIONS:

&gt; CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:

&gt; K. SIMS

SAMPLE ID

(if applicable):

&gt; S4



DESCRIPTION: &gt; CLOSE-UP OF SOIL SAMPLE S4.

&gt;

DATE: &gt; 11-15-88

TIME: &gt; 1215

DIRECTION OF  
PHOTOGRAPH:

&gt; W

WEATHER

CONDITIONS:

&gt; CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:

&gt; K. SIMS

SAMPLE ID

(if applicable):

&gt; S4



DESCRIPTION: &gt; PERSPECTIVE OF SOIL SAMPLE S4.

&gt;



SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 9 OF 11

U.S. EPA ID: ILD980901615 TDD: FOS-8802-103

PAN: FILO581SA

DATE: &gt; 11-15-88

TIME: &gt; 1330

DIRECTION OF  
PHOTOGRAPH:

&gt; N

WEATHER  
CONDITIONS:  
> CLOUDY

&gt; ~60 °F

PHOTOGRAPHED BY:  
> K. SIMSSAMPLE ID  
(if applicable):  
> S5DESCRIPTION: > CLOSE-UP OF SOIL SAMPLE S5, COLLECTED AS  
> A BACKGROUND SOIL SAMPLE.

DATE: &gt; 11-15-88

TIME: &gt; 1330

DIRECTION OF  
PHOTOGRAPH:

&gt; N

WEATHER  
CONDITIONS:  
> CLOUDY

&gt; ~60 °F

PHOTOGRAPHED BY:  
> K. SIMSSAMPLE ID  
(if applicable):  
> S5DESCRIPTION: > PERSPECTIVE OF SOIL SAMPLE S5. HUTS OWNED  
> BY FARMER'S GRAIN SHOWN IN BACKGROUND.



SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 10 OF 11

U.S. EPA ID: ILD980901615 TDD: F05-8802-103

PAN: FILO5815A

DATE: &gt; 11-15-88

TIME: &gt; 1345

DIRECTION OF  
PHOTOGRAPH:

&gt; N

WEATHER  
CONDITIONS:

&gt; CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:

&gt; S. SENER

SAMPLE ID  
(if applicable):

&gt; RW2

DESCRIPTION: > CLOSE-UP OF MUNICIPAL WELL SAMPLE RW2. SAMPLE TAKEN FROM  
> PEKIN MUNICIPAL WELL #7, 125 EDDIS AVE., PEKIN.

DATE: &gt; 11-15-88

TIME: &gt; 1345

DIRECTION OF  
PHOTOGRAPH:

&gt; NE

WEATHER  
CONDITIONS:

&gt; CLOUDY

&gt; ~60°F

PHOTOGRAPHED BY:

&gt; S. SENER

SAMPLE ID  
(if applicable):

&gt; RW2



DESCRIPTION: &gt; PERSPECTIVE OF MUNICIPAL WELL SAMPLE RW2.

&gt;



SITE NAME: PEKIN MUNICIPAL LANDFILL #1

PAGE 11 OF 11

U.S. EPA ID: ILD980901615 TDD: F05-8802-103

PAN: FILO5815A

DATE: &gt; 11-15-88

TIME: &gt; 1600

DIRECTION OF  
PHOTOGRAPH:

&gt; N

WEATHER  
CONDITIONS:

&gt; CLOUDY

&gt; ~ 60°F

PHOTOGRAPHED BY:

&gt; S. SENER

SAMPLE ID  
(if applicable):

&gt; RW1



DESCRIPTION: &gt; CLOSE - UP OF UTILITY WELL SAMPLE RW1.

&gt;

DATE: &gt; 11-15-88

TIME: &gt; 1600

DIRECTION OF  
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&gt; N

WEATHER  
CONDITIONS:

&gt; CLOUDY

&gt; ~ 60°F

PHOTOGRAPHED BY:

&gt; S. SENER

SAMPLE ID  
(if applicable):

&gt; S RW1



DESCRIPTION: &gt; PERSPECTIVE OF UTILITY WELL SAMPLE RW1.

&gt;

**APPENDIX D**

**U.S. EPA TARGET COMPOUND LIST AND  
TARGET ANALYTE LIST  
QUANTITATION/DETECTION LIMITS**

**ADDENDUM A**

**ROUTINE ANALYTICAL SERVICES  
CONTRACT REQUIRED DETECTION AND QUANTITATION LIMITS**

Contract Laboratory Program  
Target Compound List  
Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Chloromethane	74-87-3	10 ug/L	10 ug/Kg
Bromomethane	74-83-9	10	10
Vinyl chloride	75-01-4	10	10
Chloroethane	75-00-3	10	10
Methylene chloride	75-09-2	5	5
Acetone	67-64-1	10	5
Carbon disulfide	75-15-0	5	5
1,1-dichloroethene	75-35-4	5	5
1,1-dichloroethane	75-34-3	5	5
1,2-dichloroethene (total)	540-59-0	5	5
Chloroform	67-66-3	5	5
1,2-dichloroethane	107-06-2	5	5
2-butanone (HEX)	78-93-3	10	10
1,1,1-trichloroethane	71-55-6	5	5
Carbon tetrachloride	56-23-5	5	5
Vinyl acetate	108-05-4	10	10
Bromodichloromethane	75-27-4	5	5
1,2-dichloropropane	78-87-5	5	5
cis-1,3-dichloropropene	10061-01-5	5	5
Trichloroethene	79-01-6	5	5
Dibromochloromethane	124-48-1	5	5
1,1,2-trichloroethane	79-00-5	5	5
Benzene	71-43-2	5	5
Trans-1,3-dichloropropene	10061-02-6	5	5
Bromoform	75-25-2	5	5
4-Methyl-2-pentanone	108-10-1	10	10
2-Hexanone	591-78-6	10	10
Tetrachloroethene	127-18-4	5	5
Toluene	108-88-3	5	5
1,1,2,2-tetrachloroethane	79-34-5	5	5
Chlorobenzene	108-90-7	5	5
Ethyl benzene	100-41-4	5	5
Styrene	100-42-5	5	5
Xylenes (total)	1330-20-7	5	5

Table A  
Contract Laboratory Program  
Target Compound List  
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
Phenol	108-95-2	10 ug/L	330 ug/Kg
bis(2-Chloroethyl) ether	111-44-4	10	330
2-Chlorophenol	95-57-8	10	330
1,3-Dichlorobenzene	541-73-1	10	330
1,4-Dichlorobenzene	106-46-7	10	330
Benzyl Alcohol	100-51-6	10	330
1,2-Dichlorobenzene	95-50-1	10	330
2-Methylphenol	95-48-7	10	330
bis(2-Chloroisopropyl) ether	108-60-1	10	330
4-Methylphenol	106-44-5	10	330
N-Nitroso-di-n-dipropylamine	621-64-7	10	330
Hexachloroethane	67-72-1	10	330
Nitrobenzene	98-95-3	10	330
Isophorone	78-59-1	10	330
2-Nitrophenol	88-75-5	10	330
2,4-Dimethylphenol	105-67-9	10	330
Benzoic Acid	65-85-0	50	1600
bis(2-Chloroethoxy) methane	111-91-1	10	330
2,4-Dichlorophenol	120-83-2	10	330
1,2,4-Trichlorobenzene	120-82-1	10	330
Naphthalene	91-20-3	10	330
4-Chloroaniline	106-47-8	10	330
Hexachlorobutadiene	87-68-3	10	300
4-Chloro-3-methylphenol	59-50-7	10	330
2-Methylnaphthalene	91-57-6	10	330
Hexachlorocyclopentadiene	77-47-4	10	330
2,4,6-Trichlorophenol	88-06-2	10	330
2,4,5-Trichlorophenol	95-95-4	50	1600
2-Chloronaphthalene	91-58-7	10	330
2-Nitroaniline	88-74-4	50	1600
Dimethylphthalate	131-11-3	10	330
Acenaphthylene	208-96-8	10	330
2,6-Dinitrotoluene	606-20-2	10	330
3-Nitroaniline	99-09-2	50	1600
Acenaphthene	83-32-9	10	330
2,4-Dinitrophenol	51-28-5	50	1600
4-Nitrophenol	100-02-7	50	1600
Dibenzofuran	132-64-9	10	330
2,4-Dinitrotoluene	121-14-2	10	330
Diethylphthalate	84-66-2	10	330
4-Chlorophenyl-phenyl ether	7005-72-3	10	330



Table A  
Contract Laboratory Program  
Target Compound List  
Semivolatiles Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SLUDGE SEDIMENT
Fluorene	86-73-7	10 ug/L	330 ug/Kg
4-Nitroaniline	100-01-6	50	1600
4,6-Dinitro-2-methylphenol	534-52-1	50	1600
N-nitrosodiphenylamine	86-30-6	10	330
4-Bromophenyl-phenylether	101-55-3	10	330
Hexachlorobenzene	118-74-1	10	330
Pentachlorophenol	87-86-5	50	1600
Phenanthrene	85-01-8	10	330
Anthracene	120-12-7	10	330
Di-n-butylphthalate	84-74-2	10	330
Fluoranthene	206-44-0	10	330
Pyrene	129-00-0	10	330
Butylbenzylphthalate	85-68-7	10	330
3,3'-Dichlorobenzidine	91-94-1	20	660
Benzo(a)anthracene	56-55-3	10	330
Chrysene	218-01-9	10	330
bis(2-Ethylhexyl)phthalate	117-81-7	10	330
Di-n-octylphthalate	117-84-0	10	330
Benzo(b)fluoranthene	205-99-2	10	330
Benzo(k)fluoranthene	207-08-9	10	330
Benzo(a)pyrene	50-32-8	10	330
Indeno(1,2,3-cd)pyrene	193-39-5	10	330
Dibenz(a,h)anthracene	53-70-3	10	330
Benzo(g,h,i)perylene	191-24-2	10	330

Table A  
Contract Laboratory Program  
Target Compound List  
Pesticide and PCB Quantitation Limits

COMPOUND	CAS #	WATER	SOIL SEDIMENT SLUDGE
alpha-BHC	319-84-6	0.05 ug/L	8 ug/Kg
beta-BHC	319-85-7	0.05	8
delta-BHC	319-86-8	0.05	8
gamma-BHC (Lindane)	58-89-9	0.05	8
Heptachlor	76-44-8	0.05	8
Aldrin	309-00-2	0.05	8
Heptachlor epoxide	1024-57-3	0.05	8
Endosulfan I	959-98-8	0.05	8
Dieldrin	60-57-1	0.10	16
4,4'-DDE	72-55-9	0.10	16
Endrin	72-20-8	0.10	16
Endosulfan II	33213-65-9	0.10	16
4,4'-DDD	72-54-8	0.10	16
Endosulfan sulfate	1031-07-8	0.10	16
4,4'-DDT	50-29-3	0.10	16
Methoxychlor (Mariate)	72-43-5	0.5	80
Endrin ketone	53494-70-5	0.10	16
alpha-Chlordane	5103-71-9	0.5	80
gamma-chlordane	5103-74-2	0.5	80
Toxaphene	8001-35-2	1.0	160
AROCLOR-1016	12674-11-2	0.5	80
AROCLOR-1221	11104-28-2	0.5	80
AROCLOR-1232	11141-16-5	0.5	80
AROCLOR-1242	53469-21-9	0.5	80
AROCLOR-1248	12672-29-6	0.5	80
AROCLOR-1254	11097-69-1	1.0	160
AROCLOR-1260	11096-82-5	1.0	160

Table A  
Contract Laboratory Program  
Target Analyte List  
Inorganic Quantitation Limits

COMPOUND	PROCEDURE	SOIL WATER	SEDIMENT SLUDGE
Aluminum	ICP	200 ug/L	40 mg/Kg
Antimony	Furnace	60	2.4
Arsenic	Furnace	10	2
Barium	ICP	200	40
Beryllium	ICP	5	1
Cadmium	ICP	5	1
Calcium	ICP	5000	1000
Chromium	ICP	10	2
Cobalt	ICP	50	10
Copper	ICP	25	5
Iron	Icp	100	20
Lead	Furnace	5	1
Magnesium	ICP	5000	1000
Manganese	ICP	15	3
Mercury	Cold Vapor	0.2	0.008
Nickel	ICP	40	8
Potassium	ICP	5000	1000
Selenium	Furnace	5	1
Silver	ICP	10	2
Sodium	ICP	5000	1000
Thallium	Furnace	10	2
Vanadium	ICP	50	10
Zinc	ICP	20	4
Cyanide	Color	10	2

**ADDENDUM B**

**CENTRAL REGIONAL LABORATORY  
DETECTION LIMITS**

TABLE B  
CENTRAL REGIONAL LABORATORY  
VOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT IN REAGENT WATER
Benzene	71-43-2	1.5 ug/L
Bromodichloromethane	75-27-4	1.5
Bromoform	75-25-2	1.5
Bromomethane	74-83-9	10
Carbon tetrachloride	56-23-5	1.5
Chlorobenzene	108-90-7	1.5
Chloroethane	75-00-3	1.5
2-Chloroethyl vinyl ether	110-75-8	1.5
Chloroform	67-66-3	1.5
Chloromethane	74-87-3	10
Dibromochloromethane	124-48-1	1.5
1,1-dichloroethane	75-34-3	1.5
1,2-dichloroethane	107-06-2	1.5
1,1-dichloroethene	75-35-4	1.5
Total-1,2-dichloroethene	540-59-0	1.5
1,2-dichloropropane	78-87-5	1.5
cis-1,3-dichloropropene	10061-01-5	2
trans-1,3-dichloropropene	10061-02-6	1
Ethyl benzene	100-41-4	1.5
Methylene chloride*	75-09-2	1
1,1,2,2-tetrachloroethane	79-34-5	1.5
Tetrachloroethene	127-18-4	1.5
Toluene*	108-88-3	1.5
1,1,1-trichloroethane	71-55-6	1.5
1,1,2-trichloroethane	79-00-5	1.5
Trichloroethene	79-01-6	1.5
Vinyl chloride	75-01-4	10
Acrolein	107-02-8	100
Acetone*	67-64-1	75
Acrylonitrile	107-13-1	50
Carbon disulfide	75-15-0	3
2-butanone	78-93-3	(50)
Vinyl acetate	108-05-4	15
4-Methyl-2-Pentanone	108-10-1	(3)
2-Hexanone	519-78-6	(50)
Styrene	100-42-5	1
m-xylene	108-38-3	2
o-xylene**	95-47-6	
p-xylene**	106-42-3	2.5**
Total Xylene	1330-02-7	

\* Common Laboratory Solvents.

Blank Limit is SX Method Detection Limit.

(.) Values in parentheses are estimates.

Actual values are being determined at this time.

\*\* The o-xylene and p-xylene are reported as a total of the two.

TABLE B (cont.)  
CRL  
SEMIVOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK LIMIT
Aniline	62-53-3	1.5 ug/L	3 ug/L
Bis(2-chloroethyl)ether	111-44-4	1.5	3
Phenol	108-95-2	2	4
2-Chlorophenol	95-57-8	2	4
1,3-Dichlorobenzene	541-73-1	2	4
1,4-Dichlorobenzene	106-46-7	2	4
1,2-Dichlorobenzene	95-50-1	2.5	5
Benzyl alcohol	100-51-6	2	4
Bis(2-chloroisopropyl) ether	39638-32-9	2.5	5
2-Methylphenol	95-48-7	1	2
Hexachloroethane	67-72-1	2	4
N-nitrosodipropylamine	621-64-7	1.5	3
Nitrobenzene	98-95-3	2.5	5
4-Methylphenol	106-44-5	1	2
Isophorone	78-59-1	2.5	5
2-Nitrophenol	88-75-5	2	4
2,4-Dimethylphenol	105-67-9	2	4
Bis(2-chloroethoxy)methane	111-91-1	2.5	5
2,4-Dichlorophenol	120-83-2	2	4
1,2,4-Trichlorobenzene	120-82-1	2	4
Naphthalene	91-20-3	2	4
4-Chloroaniline	106-47-8	2	4
Hexachlorobutadiene	87-68-3	2.5	5
Benzoic acid	65-85-0	(30)	(60)
2-Methylnaphthalene	91-57-6	2	4
4-Chloro-3-methylphenol	59-50-7	1.5	3
Hexachlorocyclopentadiene	77-47-4	2	4
2,4,6-Trichlorophenol	88-06-2	1.5	3
2,4,5-Trichlorophenol	95-95-4	1.5	3
2-Chloronaphthalene	91-58-7	1.5	3
Acenaphthylene	208-96-8	1.5	3
Dimethyl phthalate	131-11-3	1.5	3
2,6-Dinitrotoluene	606-20-2	1	2
Acenaphthene	83-32-9	1.5	3
3-Nitroaniline	99-09-2	2.5	5
Dibenzofuran	132-64-9	1	2
2,4-Dinitrophenol	51-28-5	(15)	(30)
2,4-Dinitrotoluene	121-14-2	1	2
cont.			

TABLE B (Cont.)  
CRL  
SEMIVOLATILE DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT	BLANK (a) LIMIT
Fluorene	86-73-7	1 ug/L	2 ug/L
4-Nitrophenol	100-02-7	1.5	3
4-Chlorophenyl phenyl ether	7005-72-3	1	2
Diethylphthalate	84-66-2	1	2
4,6-dinitro-2-methylphenol	534-52-1	(15)	(30)
1,2-Diphenylhydrazine	122-66-7	1	2
n-Nitrosodiphenylamine *	86-30-6		
Diphenylamine *	122-39-4	1.5	3
4-Nitroaniline	100-01-6	3	6
4-Bromophenyl-phenylether	101-55-3	1.5	3
Hexachlorobenzene	118-74-1	1.5	3
Pentachlorophenol	87-86-5	2	4
Phenanthrene	85-01-8	1	2
Anthracene	120-12-7	2.5	5
Di-n-butylphthalate	84-74-2	2	4
Fluoranthene	206-44-0	1.5	3
Pyrene	129-00-0	1.5	3
Butylbenzylphthalate	85-68-7	3.5	7
Chrysene **	218-01-9		
Benzo(a)anthracene **	56-55-3	1.5	3
bis(2-Ethylhexyl)phthalate	117-81-7	1	2
Di-n-octyl phthalate	117-84-0	1.5	3
Benzo(b)fluoranthene ***	205-99-2		
Benzo(k)fluoranthene ***	207-08-9	1.5	3
Benzo(a)pyrene	50-32-8	2	4
Indeno(1,2,3-cd)pyrene	193-39-5	3.5	7
Dibenzo(a,h)anthracene	53-70-3	2.5	5
Benzo(g,h,i)perylene	191-24-2	4	8
2-Nitroaniline	88-74-4	1	2

\* These two parameters are reported as a total.

\*\* These two parameters are reported as a total.

\*\*\* These two parameters are reported as a total.

(a) If the blank limit is exceeded, the sample is reextracted and rerun.

( ) Values in parentheses are estimates.

The actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE B (Cont.)  
CRL  
PESTICIDE AND PCB DETECTION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Aldrin	309-00-2	0.005 ug/L
alpha BHC	319-84-6	(0.010)
beta BHC	319-85-7	(0.005)
delta BHC	319-86-8	(0.005)
gamma BHC (Lindane)	58-89-9	0.005
Chlordane	57-74-8	(0.020)
4,4'-DDD	72-54-8	(0.020)
4,4'-DDE	72-55-9	(0.005)
4,4'-DDT	50-29-3	0.020
Dieldrin	60-57-1	0.010
Endosulfan I	959-98-8	0.010
Endosulfan II	33213-65-9	0.010
Endosulfan sulfate	1031-07-8	(0.10)
Endrin	72-20-8	0.010
Endrin aldehyde	7421-93-4	(0.030)
Endrin ketone	53494-70-5	(0.030)
Heptachlor	76-44-8	0.030
Heptachlor epoxide	1024-57-3	0.005
4,4'-Methoxychlor	72-43-5	0.020
Toxaphene	8001-35-2	(0.25)
PCB-1242	53469-21-9	(0.10)
PCB-1248	12672-29-6	(0.10)
PCB-1254	11097-69-1	(0.10)
PCB-1260	11096-82-5	(0.10)

( ) Values in parentheses are estimates.  
Actual values are being determined at this time.

Note: Limits are for reagent water.



TABLE B (Cont.)  
CRL  
INORGANIC DETECTION LIMITS

COMPOUND	PROCEDURE	DETECTION LIMITS	RANGE	UNITS
Aluminum	ICP	100	80 to 1,000,000	ug/L
Antimony	Furnace	2	2 to 30	ug/L
Arsenic	Furnace	2	2 to 30	ug/L
Barium	ICP	50	6 to 20,000	ug/L
Beryllium	ICP	5	1 to 20,000	ug/L
Boron	ICP	80	80 to 20,000	ug/L
Cadmium	ICP	10	10 to 20,000	ug/L
Cadmium	Furnace	0.2	0.2 to 2	ug/L
calcium	ICP	1000	0.5 to 1,000	ug/L
Chromium	ICP	10	8 to 20,000	ug/L
Cobalt	ICP	10	6 to 20,000	ug/L
Copper	ICP	10	6 to 20,000	ug/L
iron	ICP	100	80 to 1,000,000	ug/L
Lead	Furnace	2	2 to 30	ug/L
Lead	ICP	70	70 to 20,000	ug/L
Lithium	ICP	10	10 to 20,000	ug/L
Magnesium	ICP	1000	0.1 to 200	ug/L
Manganese	ICP	10	5 to 20,000	ug/L
Mercury	Cold vapor	0.2	0.1 to 2	ug/L
Molybdenum	ICP	15	15 to 20,000	ug/L
Nickel	ICP	20	15 to 20,000	ug/L
Potassium	ICP	2000	5 to 1,000	ug/L
Selenium	Furnace	2	2 to 30	ug/L
Silver	ICP	5	6 to 10,000	ug/L
Sodium	ICP	1000	1 to 1,000	ug/L
Strontium	ICP	10	10 to 20,000	ug/L
Sulfide	Titration	1	< 1	ug/L
Sulfide	Color	0.05	< 1	ug/L
Thallium	Furnace	2	2 to 30	ug/L
Titanium	ICP	25	25 to 20,000	ug/L
Tin	ICP	40	40 to 20,000	ug/L
Vanadium	ICP	10	5 to 20,000	ug/L
Yttrium	ICP	5	5 to 20,000	ug/L
Zinc	ICP	20	40 to 1,000,000	ug/L
Cyanide	AA	5.0	8 to 200	ug/L

Note: The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See Inorganic Routine Analytical Services for related CAS #.

**ADDENDUM C**

**SPECIAL ANALYTICAL SERVICES  
DETECTION LIMITS**

**Drinking Water Samples**

TABLE C  
SPECIAL ANALYTICAL SERVICES DRINKING WATER  
VOLATILE QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT IN REAGENT WATER
Benzene	71-43-2	1.5 ug/L
Bromodichloromethane	75-27-4	1.5
Bromoform	75-25-2	1.5
Bromomethane	74-83-9	1.5
Carbon tetrachloride	56-23-5	1.5
Chlorobenzene	108-90-7	1.5
Chloroethane	75-00-3	1.5
2-Chloroethyl vinyl ether	110-75-8	1.5
Chloroform	67-66-3	1.5
Chloromethane	74-87-3	1.5
Dibromochloromethane	124-48-1	1.5
1,1-Dichloroethane	75-34-3	1.5
1,2-Dichloroethane	107-06-2	1.5
1,1-Dichloroethene	75-35-4	1.5
Total-1,2-Dichloroethene	540-59-0	1.5
1,2-Dichloropropane	78-87-5	1.5
cis-1,3-Dichloropropene	10061-01-5	2
trans-1,3-Dichloropropene	10061-02-6	1
Ethyl benzene	100-41-4	1.5
Methylene chloride *	75-09-2	1
1,1,2,2-Tetrachloroethane	79-34-5	1.5
Tetrachloroethene	127-18-4	1.5
Toluene *	108-88-3	1.5
1,1,1-Trichloroethane	71-55-6	1.5
1,1,2-Trichloroethane	79-00-5	1.5
Trichloroethene	79-01-6	1.5
Vinyl chloride	75-01-4	1.5
Acrolein	107-02-8	25
Acetone *	67-64-1	5
Acrylonitrile	107-13-1	25
Carbon disulfide	75-15-0	3
2-Butanone	78-93-3	5
Vinyl acetate	108-05-4	5
4-Methyl-2-pentanone	108-10-1	1.5
2-Hexanone	519-78-6	5
Styrene	100-42-5	1
Xylene (total)	1330-02-7	1.5

\* Common laboratory solvents.  
Blank limit is 5x method detection limit.  
( ) Values in parentheses are estimates.  
actual values are being determined at this time.

TABLE C (cont.)  
SAS DRINKING WATER  
SEMIVOLATILES QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Aniline	62-53-3	1.5 ug/l
Bis(2-chloroethyl)ether	111-44-4	1.5
Phenol	108-95-2	2
2-Chlorophenol	95-57-8	2
1,3-Dichlorobenzene	541-73-1	2
1,4-Dichlorobenzene	106-46-7	2
1,2-Dichlorobenzene	95-50-1	2.5
Benzyl alcohol	100-51-6	2
Bis(2-chloroisopropyl)ether	39638-32-9	2.5
2-Methylphenol	95-48-7	1
Hexachloroethane	67-72-1	2
n-Nitrosodipropylamine	621-64-7	1.5
Nitrobenzene	98-95-3	2.5
4-Methylphenol	106-44-5	1
Isophorone	78-59-1	2.5
2-Nitrophenol	88-75-5	2
2,4-Dimethylphenol	105-67-9	2
Bis(2-Chloroethoxy)methane	111-91-1	2.5
2,4-Dichlorophenol	120-83-2	2
1,2,4-Trichlorobenzene	120-82-1	2
Naphthalene	91-20-3	2
4-Chloroaniline	106-47-8	2
Hexachlorobutadiene	87-68-3	2.5
Benzoic Acid	65-85-0	20
2-Methylnapthalene	91-57-6	2
4-Chloro-3-methylphenol	59-50-7	1.5
Hexachlorocyclopentadiene	77-47-4	2
2,4,6-Trichlorophenol	88-06-2	1.5
2,4,5-Trichlorophenol	95-95-4	1.5
2-Chloronapthalene	91-58-7	1.5
Acenaphthylene	208-96-8	1.5
Dimethyl phthalate	131-11-3	1.5
2,6-Dinitrotoluene	606-20-2	1
Acenaphthene	83-32-9	1.5
3-Nitroaniline	99-09-2	2.5
Dibenzofuran	132-64-9	1
2,4-Dinitrophenol	51-28-5	(15)
2,4-Dinitrotoluene	121-14-2	1

TABLE C (Cont.)  
SAS DRINKING WATER  
SEMIVOLATILE QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Fluorene	86-73-7	1 ug/L
4-Nitrophenol	100-02-7	1.5
4-Chlorophenyl phenyl ether	7005-72-3	1
Diethyl phthalate	84-66-2	1
4,6-Dinitro-2-methylphenol	534-52-1	(15)
1,2-Diphenylhydrazine	122-66-7	1
n-Nitrosodiphenylamine *	86-30-6	
Diphenylamine *	122-39-4	1.5
4-Nitroaniline	100-01-6	3
4-Bromophenyl-phenylether	101-55-3	1.5
Hexachlorobenzene	118-74-1	1.5
Pentachlorophenol	87-86-5	2
Phenanthrene	85-01-8	1
Anthracene	120-12-7	2.5
di-n-Butyl phthalate	84-74-2	2
Fluoranthene	206-44-0	1.5
Pyrene	129-00-0	1.5
Butyl benzyl phthalate	85-68-7	3.5
Chrysene **	218-01-9	
Benzo(A)Anthracene **	56-55-3	1.5
bis(2-ethylhexyl)phthalate	117-81-7	1
di-n-Octyl phthalate	117-84-0	1.5
Benzo(b)fluoranthene ***	205-99-2	
Benzo(k)fluoranthene ***	207-08-9	1.5
Benzo(a)pyrene	50-32-8	2
Indeno(1,2,3-cd)pyrene	193-39-5	3.5
Dibenzo(a,h)anthracene	53-70-3	2.5
Benzo(g,h,i)perylene	191-24-2	4
2-Nitroaniline	88-74-4	1

\* These two parameters are reported as a total.

\*\* These two parameters are reported as a total.

\*\*\* These two parameters are reported as a total.

( ) Values in parentheses are estimates.

The actual values are being determined at this time.

Note: Limits are for reagent water.

TABLE C (Cont.)  
SAS DRINKING WATER  
PESTICIDE AND PCB QUANTITATION LIMITS

PARAMETER	CAS #	DETECTION LIMIT
Aldrin	309-00-2	0.005 ug/L
alpha BHC	319-84-6	0.010
beta BHC	319-85-7	0.005
delta BHC	319-86-8	0.005
gamma BHC (Lindane)	58-89-9	0.005
alpha-Chlordane	5103-71-9	0.020
gamma-Chlordane	5103-74-2	0.020
4,4'-DDD	72-54-8	0.020
4,4'-DDE	72-55-9	0.005
4,4'-DDT	50-29-3	0.020
Dieldrin	60-57-1	0.010
Endosulfan I	959-98-8	0.010
Endosulfan II	33213-65-9	0.010
Endosulfan sulfate	1031-07-8	0.10
Endrin	72-20-8	0.010
Endrin Aldehyde	7421-93-4	(0.030)
Endrin Ketone	53494-70-5	0.030
Heptachlor	76-44-8	0.030
Heptachlor Epoxide	1024-57-3	0.005
4,4'-Methoxychlor	72-43-5	0.020
Toxaphene	8001-35-2	0.25
Aroclor-1016	12674-11-2	0.10
Aroclor-1221	11104-28-2	0.10
Aroclor-1232	11141-16-5	0.10
Aroclor-1242	53469-21-9	0.10
Aroclor-1248	12672-29-6	0.10
Aroclor-1254	11097-69-1	0.10
Aroclor-1260	11096-82-5	0.10

( ) Values in parentheses are estimates.  
Actual values are being determined at this time.

Note: Limits are for reagent water.

**TABLE C (Cont.)  
SAS DRINKING WATER  
INORGANIC DETECTION LIMITS**

PARAMETER	PROCEDURE	DETECTION LIMIT
Aluminum	ICP	100
Antimony	GFAA	5
Arsenic	GFAA	5
Barium	ICP	50
Beryllium	ICP	5
Cadmium	GFAA	0.5
Calcium	ICP	1000
Chromium	ICP	10
Cobalt	ICP	10
Copper	ICP	10
Iron	ICP	100
Lead	GFAA	2
Magnesium	ICP	1000
Manganese	ICP	10
Mercury	Cold Vapor	0.2
Nickel	ICP	20
Potassium	ICP	2000
Selenium	GFAA	2
Silver	ICP	5
Sodium	ICP	1000
Thallium	GFAA	2
Tin	ICP	40
Vanadium	ICP	10
Zinc	ICP	20
Cyanide	Colorimetric	10

**Note:** The above list may or may not contain compounds that are routinely analyzed at CRL for low level detection limits for drinking water.

See Inorganic Routine Analytical Services (RAS) for related CAS #.

**APPENDIX E**

**WELL LOGS OF THE AREA OF THE SITE**



## Well Information—Drift Wells



# Layne-Western Company

## WATER SUPPLY CONTRACTORS

 721 WEST ILLINOIS AVENUE AURORA, ILLINOIS 60507  
 Phone 312-897-6941
Name of Job Pekin Water Works Company Date 8-11-69City or Village Pekin State IllinoisWell No.: 7 Drillers: KoppWell Location: 1700 ft. (N) and 150 ft. (W) of the SE cornerSW $\frac{1}{4}$  Section 3, Twp. 24N (      ), Range 5W (      ) Tazewell CountyOtherwise located as Block 3, Lot 20, James Edds. AdditionWork Began: 8-1-69 Work Completed: 8-11-69 Well Depth: 120'

All measurements made from existing ground level at time well was drilled.

## Casing Record:

Amount	Dia.	Wt. or Thickness	Material
<u>92'</u>	<u>20"</u>	<u>3/8" Wall</u>	<u>Steel</u>
with <u>welded</u> joints from <u>2' above ground</u> to <u>90'</u>			
with _____ joints from _____ to _____			

Screen Record: Type Layne Shutter

Amount	Dia.	Opening	Material
<u>30'</u>	<u>20"</u>	<u>#6 slot</u>	<u>Stainless</u>
with <u>welded</u> joints from <u>90'</u> to <u>120'</u>			
with _____ joints from _____ to _____			

Type of Seal at Bottom Steel Plate

## Hole Record:

<u>48"</u>	inch from	<u>0</u>	to	<u>10'</u>
<u>42"</u>	inch from	<u>10'</u>	to	<u>120' T.D.</u>

## Gravel Pack Record:

Amount	Size	Source	From	To
<u>30 ton</u>	<u>#3</u>	<u>Muscatine</u>	<u>60'</u>	<u>120'</u>

Cementing Record: Redimix from 20' to ground levelBackfill Record: Pitrun sand from 20' to 60'

White Copy -  
Ill. Dept. of Public Health  
Yellow Copy - Well Contractor  
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE  
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST  
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER  
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH  
WELL CONSTRUCTION REPORT

GEOLOGICAL AND WATER SURVEYS WELL RECORD

1. Type of Well

- a. Dug \_\_\_\_\_ Bored \_\_\_\_\_ Hole Diam. \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
Curb material \_\_\_\_\_ Buried Slab: Yes \_\_\_\_\_ No \_\_\_\_\_  
b. Driven \_\_\_\_\_ Drive Pipe Diam. \_\_\_\_\_ in. Depth \_\_\_\_\_ ft.  
c. Drilled X Finished in Drift \_\_\_\_\_ In Rock \_\_\_\_\_  
Tubular \_\_\_\_\_ Gravel Packed \_\_\_\_\_  
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

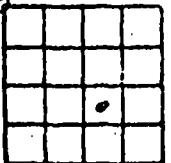
2. Distance to Nearest:

- Building \_\_\_\_\_ Ft. Seepage Tile Field 110  
Cess Pool 90 Sewer (non Cast Iron) 100  
Privy \_\_\_\_\_ Sewer (Cast Iron) —  
Septic Tank 110 Barnyard —  
Leaching Pit — Manure Pile —

3. Well furnishes water for human consumption? Yes X No \_\_\_\_\_  
4. Date well completed 8-21-80  
5. Permanent Pump Installed? Yes X Date 8-25-80 No \_\_\_\_\_  
Manufacturer Whorls Type Sub Location well  
Capacity 5 gpm. Depth of Setting 70 Ft.  
6. Well Top Sealed? Yes \_\_\_\_\_ No \_\_\_\_\_ Type \_\_\_\_\_  
7. Pitless Adapter Installed? Yes X No \_\_\_\_\_  
Manufacturer Merrill Model Number \_\_\_\_\_  
How attached to casing? Riveted  
8. Well Disinfected? Yes X No \_\_\_\_\_  
9. Pump and Equipment Disinfected? Yes X No \_\_\_\_\_  
10. Pressure Tank Size 42 gal. Type pressure  
Location Basement  
11. Water Sample Submitted? Yes X No \_\_\_\_\_

REMARKS: To County.

10. Property of \_\_\_\_\_ Well No. \_\_\_\_\_  
Address \_\_\_\_\_  
Driller Lyle Loppentagier License No. 102-00134  
11. Permit No. 96590 Date 8-18-80  
12. Water from Drill Formation \_\_\_\_\_  
at depth 36 to 55 ft. Sec. 14  
14. Screen: Diam. 4 in. Twp. 24N  
Length: 3 ft. Slot 20 Rge. 5W  
Elev. \_\_\_\_\_



SHOW  
LOCATION IN  
SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5 1/2</u>	<u>1.53-B 15.00</u>	<u>0</u>	<u>56</u>
	<u>steel</u>		
<u>4 1/2</u>	<u>plastic sch. 50</u>	<u>56</u>	<u>72</u>

16. Size Hole below casing: \_\_\_\_\_ in.  
17. Static level 56 ft. below casing top which is 1 1/2 ft.  
above ground level. Pumping level 65 ft. when pumping at 5  
gpm for 6 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>yellow clay fine sand</u>	<u>0</u>	<u>38</u>
<u>fine sand</u>	<u>38</u>	<u>58</u>
<u>coarse sand some gravel</u>	<u>58</u>	<u>59</u>
<u>Blue shale</u>	<u>59</u>	<u>76</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Lyle Loppentagier DATE 8-25-80

White Copy -  
Ill. Dept. of Public Health  
Yellow Copy - Well Contractor  
Blue Copy - Well Owner

# INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE  
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST  
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER  
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

## ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

### 1. Type of Well

- a. Dug       . Bored       . Hole Diam.        in. Depth        ft.  
Curb material       . Buried Slab: Yes        No
- b. Driven       . Drive Pipe Diam.        in. Depth        ft.
- c. Drilled X. Finished in Drift       . In Rock       .  
Tubular       . Gravel Packed       .
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

### 2. Distance to Nearest:

Building 40 Ft. Seepage Tile Field 75  
Cess Pool        Sewer (non Cast Iron) 75  
Privy        Sewer (Cast Iron)         
Septic Tank 60 Barnyard         
Leaching Pit        Manure Pile       

### 3. Well furnishes water for human consumption? Yes X No

### 4. Date well completed 9-7-84

### 5. Permanent Pump Installed? Yes X Date 9-8-84 No

Manufacturer Reda Type Sub Location Well  
Capacity 10 gpm. Depth of Setting 70 Ft.

### 6. Well Top Sealed? Yes        No        Type

### 7. Pitless Adapter Installed? Yes X No

Manufacturer TAAPPY Model Number 161 Approved         
How attached to casing? Cemented

### 8. Well Disinfected? Yes X No

### 9. Pump and Equipment Disinfected? Yes X No

### 10. Pressure Tank Size 42 gal. Type Pressure Location Basement

### 11. Water Sample Submitted? Yes X No

### REMARKS:

To County Health Dept.  
Well is neck down to 3" from  
64-78ft. using 3" pump.

## GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner        Well No.         
Address         
Driller Lyle Coppert-Arger License No. 114148  
11. Permit No. 114148 Date 8-15-84  
12. Water from Sand Formation        13. County Tazewell  
at depth 58 to 64 ft. Sec. 14  
14. Screen: Diam. 4 in. Twp. 24A  
Length: 4 ft. Slot 12 Rge. SW  
Phos 3ft Sand point 10 ft. Elev.

### 15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>4 1/2</u>	<u>Steel A-120</u>	<u>0</u>	<u>64</u>
	<u>10-79</u>		
<u>8 1/2</u>	<u>SARSI 3" Plastic Casing on Bottom</u>		

SHOW  
LOCATION IN  
SECTION PLAT

16. Size Hole below casing:        in.  
17. Static level 58 ft. below casing top which is 1 1/2 ft.  
above ground level. Pumping level 64 ft. when pumping at 5  
gpm for 8 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Yellow Sandy CLAY</u>	<u>0</u>	<u>30</u>
<u>HARD PAN</u>	<u>30</u>	<u>31</u>
<u>SANDY Blue CLAY</u>	<u>31</u>	<u>56</u>
<u>Blue-Mud SANDY CLAY</u>	<u>56</u>	<u>64</u>
<u>WATER BEARING DIATY SAND</u>	<u>64</u>	<u>66</u>
<u>HARD PACKED ALMOST</u>	<u>66</u>	<u>78</u>
<u>SAND STONE</u>		
<u>Blue Shale</u>	<u>78</u>	<u>80</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Lyle Coppert-Arger DATE 9-9-84 RW

Copy -  
Dept. of Public Health  
Copy - Well Contractor  
Copy - Well Owner

# INSTRUCTIONS TO FILERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE  
DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST  
JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER  
SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

## ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

### Type of Well

- a. Dug ☐ Bored ☒ Hole Diam. 16 in. Depth 63 ft.  
Curb material ☐ Buried Slab: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.
- c. Drilled ☐ Finished in Drift ☒ In Rock ☐  
Tubular ☐ Gravel Packed Northern Gravel #0
- d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

### Distance to Nearest:

Building 150 Ft. Seepage Tile Field 75  
Cess Pool - Sewer (non Cast iron) -  
Privy - Sewer (Cast iron) -  
Septic Tank 100 Barnyard -  
Leaching Pit - Manure Pile -  
Well furnishes water for human consumption? Yes ☒ No ☐

Date well completed                     

Permanent Pump Installed? Yes ☐ Date                      No ☐

Manufacturer                      Type                      Location                     

Capacity                      gpm. Depth of Setting                      Ft.

Well Top Sealed? Yes ☒ No ☐ Type vented cap

Pitless Adapter Installed? Yes ☒ No ☐

Manufacturer Dicken Model Number LD-S-10-P

How attached to casing? clamp-on

Well Disinfected? Yes ☒ No ☐

Pump and Equipment Disinfected? Yes ☐ No ☐

Pressure Tank Size                      gal. Type                     

Location                     

Water Sample Submitted? Yes ☐ No ☐

MARKS:

County # 21548

## GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner                      Well No.                     

Address                     

Driller Steven Sauder License No. 92-622

11. Permit No. 117893 Date 5/20/85

12. Water from fine sand 13. County Tazewell

at depth 59 to 63 ft.

14. Screen: Diam. 4 3/4 in.

Length: 4 ft. Slot .025

Sec. 14/c

Twp. 24N

Rge. 5W

Elev.                     


### 15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
8	PVC	+1 1/2	59

SHOW  
LOCATION IN  
SECTION PLAT  
100'S 4'100'E  
N1/4 SE NE SE

16. Size Hole below casing:                      in.

17. Static level 50 ft. below casing top which is 1 1/2 ft.  
above ground level. Pumping level 59 ft. when pumping at 15  
gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
sandy loam	4	4
sand-fine, yellow, some clay	41	45
sand-fine, yellow, clean	18	63
clay-yellow	1	63 1/2
shale-gray at 63 1/2		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Steven Sauder DATE 5/30/85

RW4

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

Copy -  
Ill. of Public Health  
Copy - Well Contractor  
Copy - Well Owner

ILLINOIS DEPARTMENT OF PUBLIC HEALTH  
WELL CONSTRUCTION REPORT

Type of Well

1. Dug ☐ Bored ☒ Hole Diam. 32 in. Depth 58 ft.  
Curb material concrete Buried Slab: Yes ☒ No ☐  
2. Driven ☐ Drive Pipe Diam. ☐ in. Depth ☐ ft.  
3. Drilled ☐ Finished in Drift ☐ In Rock ☐  
Tubular ☐ Gravel Packed ☐  
4. Grout:

(KIND)	FROM (FT.)	TO (FT.)

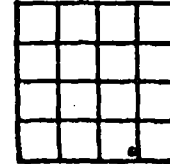
Distance to Nearest:

Building 20 Ft. Seepage Tile Field 80  
Cess Pool - Sewer (non Cast Iron) -  
Privy - Sewer (Cast Iron) -  
Septic Tank 75 Barnyard -  
Leaching Pit - Manure Pile -  
Well furnishes water for human consumption? Yes ☒ No ☐  
Date well completed 5/8/82

Permanent Pump Installed? Yes ☐ Date ☐ No ☒  
Manufacturer ☐ Type ☐ Location ☐  
Capacity ☐ gpm. Depth of Setting ☐ Ft.  
Well Top Sealed? Yes ☒ No ☐ Type vented cap  
Pressure Adapter Installed? Yes ☒ No ☐  
Manufacturer Baker Model Number 1-BAM-5  
How attached to casing? clamp-on  
Well Disinfected? Yes ☒ No ☐  
Pump and Equipment Disinfected? Yes ☐ No ☐  
Pressure Tank Size ☐ gal. Type ☐  
Location ☐  
Water Sample Submitted? Yes ☐ No ☒  
MARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner [redacted] Well No. [redacted]  
Address [redacted]  
Driller Steven Sauder License No. 92-622  
11. Permit No. 103211 Date 4/26/82  
12. Water from gray sand Formation [redacted] 13. County Tazewell  
at depth 62 to ☐ ft. Sec. 24  
14. Screen: Diam. ☐ in. Twp. 24N  
Length: ☐ ft. Slot ☐ Rge. 5W  
Elev. ☐



SHOW  
LOCATION IN  
SECTION FLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	PVC	0	14
24	Concrete	14	49
15	Concrete	21	62

16. Size Hole below casing: ☐ in.  
17. Static level ☐ ft. below casing top which is ☐ ft.  
above ground level. Pumping level ☐ ft. when pumping at ☐  
gpm for ☐ hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
clay-yellow	7	7
clay-sandy	2	9
silt-yellow	11	20
silt-muddy, gray	20	40
clay-gray, hard	22	62
gray sand at 62'		
backfilled with gravel pack		
to 58'		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Steven Sauder DATE 5/12/82